

Fuel Oil and Kerosene Sales 2008

December 2009

Energy Information Administration
Office of Oil and Gas
U.S. Department of Energy
Washington DC 20585

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Fuel Oil and Kerosene Data Available Through Electronic Access

Annual petroleum marketing data are available through electronic access that contains statistics from the *Fuel Oil and Kerosene Sales 2008* report. Included are annual sales data on petroleum volumes of kerosene, distillate fuel oils, and residual fuel oils by State. Annual historical data at the national level are provided in summary tables.

For *Fuel Oil and Kerosene Sales* on the Internet, access EIA's home page at <http://www.eia.doe.gov>.

Internet Addresses:

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World Wide Web Site: <http://www.eia.doe.gov>

Further information as to content may be obtained from the National Energy Information Center (NEIC), telephone (202) 586-8800.

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Introduction

The *Fuel Oil and Kerosene Sales 2008* report provides information, illustrations and State-level statistical data on energy use sales of kerosene; No.1, No. 2, and No. 4 distillate fuel oil; and residual fuel oil. State-level kerosene sales include volumes for residential, commercial, industrial, farm, and all other uses. State level distillate sales include volumes for residential, commercial, industrial, oil company, railroad, vessel bunkering, military, electric power, farm, on-highway, off highway construction, and other uses. State-level residual fuel sales include volumes for commercial, industrial, oil company, vessel bunkering, military, electric power, and other uses. The Petroleum Division, Office of Oil and Gas, Energy Information Administration ensures the accuracy, quality, and confidentiality of the published data in the *Fuel Oil and Kerosene Sales 2008*.

NOTE: The 2007 adjusted numbers have been revised since they were first published in the *Fuel Oil and Kerosene Sales 2007*. The revisions to the data were made to include new distillate fuel oil and residual fuel oil volumes for “Electric Power”. See the Adjusted Sales section and “Technical Note 3” in Appendix A for further explanation.

Except for the kerosene and on-highway diesel information, data presented in Tables 1 through 12 (Sales of Fuel Oil and Kerosene) present results of the EIA- 821 survey. Tables 13 through 24 (Adjusted Sales of Fuel Oil and Kerosene) include volumes that are based on the EIA-821 survey but have been adjusted to equal the products supplied volumes published in the *Petroleum Supply Annual* (PSA).

Tables 1 through 12 contain sales estimates resulting from the EIA-821 survey for all categories except kerosene and on-highway diesel. For on-highway diesel the survey was not expected to yield valid statistics because the sampling frame does not include a comprehensive listing of all truck stops. Hence, State-level data obtained from the Federal Highway Administration were used instead.

Kerosene sales data were not expected to be complete because a comprehensive listing of kerosene retailers was not available to serve as a sampling frame. It was thought that a complete frame would be expensive to construct because many kerosene retailers are convenience stores or other small businesses.

Because of these concerns, kerosene sales data have been published only after adjusting the sales data so that they add to the U.S. total of kerosene product supplied from the PSA.

In Tables 13 through 24, estimates of distillate fuel oil are adjusted at the Petroleum Administration for Defense (PAD) district level to equal published PSA volume estimates of products supplied. For certain sales categories, data obtained from alternate sources are used instead of the adjusted numbers. See “Technical Note 3” in Appendix A for further explanation.

Kerosene and residual fuel oil in Tables 14 through 26 are adjusted at the national level to equal published PSA products supplied estimates. Thus the kerosene figures in Tables 13 through 24 are identical to those shown in Tables 1 through 12.

The sales data (Tables 1 through 12) differ from the adjusted sales estimates (Tables 13 through 24) with the exception of kerosene and on-highway diesel for many reasons, including:

- Some products are interchangeable (fungible) and may be supplied as one product and sold as another product. For example, kerosene, low sulfur kerosene type jet fuel, and low-sulfur No. 1 fuel oil can be used interchangeably.
- Products supplied into a PAD district may be blended prior to final sale. For example, residual fuel and No. 2 distillate may be blended and sold as No. 4 fuel oil or, in colder climates, kerosene maybe blended with distillate fuel oil and sold as heating oil.
- Geographic differences can be attributed to the transportation of product by truck or rail from the district of production. Inter-PAD district movements of products by these modes of transportation are not accounted for in Tables 13 through 24.
- Products maybe supplied into a PAD district but the final sale may cross PAD district boundaries. For example, a fuel oil dealer in Ohio (PAD District 2) may make retail sales into Pennsylvania (PAD District 1B) and/or West Virginia (PAD District 1C).
- Drawdowns or buildups in stocks will cause volumes supplied to differ from sales volumes.

Highlights

Sales of Fuel Oil and Kerosene in 2008

In 2008, overall sales of fuel oil and kerosene fell sharply from 74.4 billion gallons to 67.2 billion gallons. The drop of 7.2 billion gallons (9.6 percent) from the level set in 2007 is the largest drop in combined sales on record and the lowest combined total since 1995. Distillate sales decreased by nearly 4.5 billion gallons, slipping to 58.7 billion gallons, the lowest total since 1999. Residual fuel oil sales fell by more than 2.4 billion gallons below the level attained in 2007 to 8.3 billion gallons. Kerosene sales also fell sharply, falling 55.6 percent to 218.7 million gallons, the lowest level in more than 25 years.

In 2008, sales of residual fuel oil accounted for 12.3 percent of total fuel oil and kerosene sales, the lowest share of the total since EIA began publishing data. The large drop in sales of residual fuel oil and kerosene, resulted in distillate fuel oil sales accounting for 87.4 percent of total sales, exceeding the previous highest share of total sales set in 2007,

when distillate sales accounted for 84.9 percent of total fuel oil and kerosene sales. Sales of kerosene made up just 0.3 percent of total sales, compared to 0.7 percent in 2007.¹

Distillate Fuel Oil

In 2008, distillate sales fell nearly 4.5 billion gallons countering the long-term trend of rising sales that has occurred in 12 of the past 16 years. The drop in sales during 2008 exceeded the magnitude of any previous decline in sales during that time frame.² Despite the size of the overall drop in distillate sales in 2008, sales to the farm sector and for direct use by oil companies increased somewhat, while sales to all other sectors fell in comparison to the previous year.

Although the transportation sector continued to dominate distillate sales, sales dropped throughout the sector. Overall sales to the transportation sector slipped by 3.4 billion gallons, nearly 1.8 billion

Table HL1. Volume Distribution of Distillate and Residual Fuel Oils, 2007 and 2008

Energy Use	2008 Distillate		2007 Distillate		2008 Residual		2007 Residual	
	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share
Residential.....	4,631	7.9	5,142	8.1	—	—	—	—
Commercial.....	2,572	4.4	2,719	4.3	403	4.9	481	4.5
Industrial.....	2,366	4.0	2,467	3.9	1,034	12.5	1,187	11.1
Oil Company.....	990	1.7	775	1.2	58	0.7	44	0.4
Farm.....	3,212	5.5	3,203	5.1	—	—	—	—
Electric Power.....	544	0.9	670	1.1	1,699	20.5	2,647	24.7
Railroad.....	2,697	4.6	3,635	5.8	—	—	—	—
Vessel Bunkering.....	1,187	2.0	1,924	3.0	5,066	61.2	6,327	59.1
On-Highway.....	38,007	64.7	39,802	63.0	—	—	—	—
Military.....	260	0.4	363	0.6	9	0.1	18	0.2
Off-Highway.....	2,272	3.9	2,512	4.0	—	—	—	—
Other.....	0	0.0	0	0.0	4	0.1	3	0.0
Total.....	58,739		63,211		8,273		10,706	

Notes: Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2004-2008. On-Highway Diesel data are Federal Highway Administration statistics of highway special fuels use.

¹ Numbers may not sum to 100 percent due to rounding.

² During the period 1991-2008, the average increase was 1.8 billion gallons while the largest previous drop was the 1.6 billion gallons that occurred in 2004.

gallons of the drop was on-highway fuel, but sales to the railroad and bunker sectors also fell sharply (down 938 million and 737 million gallons respectively).

The precipitous drop in sales came about as the result of a number of factors, particularly sharply rising energy prices during the first half of the year and deteriorating economic conditions that surfaced during the second half of the year. Economic conditions as measured by Gross Domestic Product (GDP) grew at a rate of 1.1 percent³, half the rate of 2007. However, that overall growth masks the severe economic downturn particularly during the fourth quarter of the year. Spending on new residential construction dropped by nearly 35 percent, as a result, total spending for private construction went down by 9.8 percent. Capacity utilization rates for both the industrial and manufacturing sectors declined for the first time since 2002, by 0.4 percent and 0.5 percent respectively. Although total industrial production rose compared to 2007, the increase of 1.5 percent was the smallest increase since 2003⁴. The unemployment rate increased from 4.6 percent to 5.8 percent, the highest rate since 2003.⁵

Although weather always plays an important role in shaping demand for distillate fuel, 2008 was not a year with dramatic differences from normal conditions. The winter was cooler than in 2007 but only very slightly cooler than normal. While colder winter weather tends to boost sales to the residential home heating market, particularly in the New England and the Middle Atlantic regions of the East Coast, where heating oil sales are concentrated,⁶ record high prices and adverse economic conditions contributed to a drop in the principal consuming regions. Distillate sales to the residential sector fell by more than 430 million gallons in the northeast compared to a gain there of more than 215 million gallons the year before.

Another factor negatively impacting distillate sales was the fact that the summer of 2008 was cooler than

the year before, resulting in a reduction in the need for electric utilities to consume distillate fuel to meet peak summer generation loads. Sales to utilities at the national level fell approximately 125.7 million gallons (18.8 percent).

Weather plays a major role in the agricultural sector and in 2008, at the national level the farm sector was one of only two market sectors to register a gain in distillate sales compared to the previous year. The growth at the national level was minimal; sales increased just 9.5 million gallons reflecting both the economic situation and such weather events at the regional level as drought, flooding, cold weather, tropical storms and hurricanes. Sales increased in the New England and Middle Atlantic portions of PAD District 1 (the East Coast), and in PAD District 2 (the Midwest farm belt) and District 5 (the West Coast). However, sales declined in the southern portion of PAD District 1, which includes Florida, dropping 13.4 million gallons. In the Midwest sales increased slightly moving up by less than two million gallons (only one tenth of a percent). Sales along the Gulf Coast fell the most of any region, dropping more than 25 million gallons. In the Rocky Mountains, sales also fell by more than 20 million gallons. On the West Coast, sales jumped, growing by 58.5 million gallons, an increase of 15.3 percent.

Among the leading crops, the harvests of soybeans and wheat increased while corn and cotton production were lower than in 2007. Despite a drop of some seven percent in corn production, the harvest was still the second highest on record, bolstered in part by the requirement to add ethanol to gasoline.⁷

Aided by less severe weather conditions and especially by record high prices during the first half of the year, distillate sales for oil company use surged. In 2008, weather did not play a major role in influencing oil company use despite the fact that there was a very active tropical cyclone season including for the first time, six consecutive tropical cyclones to make landfall on the U.S. mainland during the year. Unlike 2005 when Hurricanes

³ GDP is a prime measure of the state of the economy as measured in constant (inflation adjusted) dollars.

⁴ Total industrial production includes manufacturing of both durable and nondurable goods, mining and utilities.

⁵ *Economic Indicators*, May 2009, p 12. (Note, data apply to persons age 16 and over.)

⁶ The U.S. is divided into 5 Petroleum Administration for Defense Districts (PADD). PADD 1, East Coast, PADD 2, Midwest, PADD 3, Gulf Coast, PADD 4, Rocky Mountain, and PADD 5, West Coast. PADD 1 is broken into three subdistricts PADD 1A, New England, PADD 1B, Central Atlantic, and PADD 1C, Lower Atlantic.

⁷ Department of Agriculture, National Agricultural Statistics Service, *Crop Production 2008 Summary*, January 2009, page 77.

Katrina and Rita sharply impacted oil company demand, damage from Hurricanes Gustav and Ike and other tropical storms while significant, did not have the devastating impact of the earlier storms on the industry.

In addition, for the second year in a row, higher energy prices spurred exploration and development activities increasing sales nationally by more than 20 percent. The number of drilling rigs in operation, an important measure of oil company activity, increased by 6.6 percent compared to 2007⁸. The number of working rigs increased each month until December when the number dipped slightly reflecting changing economic conditions and lower prices for oil and petroleum products. Although distillate sales to oil companies jumped by nearly 28 percent, not all regions experienced gains. Sales dropped slightly on the East Coast and were essentially unchanged on the West Coast. However, spurred by both high prices and particularly by discoveries and developments in areas rich in shale deposits, sales to the sector increased sharply. Sales to oil companies shot up by 20.6 percent (35.0 million gallons) in the Rocky Mountains and by 39.4 percent (157 million gallons) on the Gulf Coast.

For the first time since 2004, sales of distillate fuel to the transportation sector fell, dropping in the aggregate by 3.4 billion gallons. Nearly 1.8 billion gallons of that drop resulted from reduced demand from the on-highway sector. Sales of on-highway diesel fell in all regions of the country. Sales of distillate fuel for use by railroads also fell in every region. At the national level, sales to railroads fell by nearly 29 percent, dropping 938 million gallons, compared to a gain of 22 million gallons in 2007. With the exception of the Middle Atlantic portion of the East Coast, sales of bunker marine fuel, the final component of transportation sales, also fell, dropping more than 38 percent (737 million gallons).

In 2008, sales to the off-highway sector dropped by 240 million gallons, down approximately 9.6 percent. While the drop reflects the downturn in the economy, it also reflects increased volatility in this market segment. Sales in 2007 increased by approximately 34 million gallons plunged by 477 million in 2006,

and increased by 209 million gallons in 2005, accounting for nearly 25 percent of the overall increase in distillate sales that year.

Nationally, sales to the commercial sector fell in most regions of the country dropping 146.4 million gallons (5.4 percent). Sales dropped in all three sub-regions of the East Coast, falling 241 million gallons (13.4 percent). Sales also fell along the Gulf Coast down 32.6 million gallons (13.8 percent). In the Rocky Mountains, sales were flat slipping just 32 thousand gallons. Not all regions lost sales; in the Midwest and on the Pacific Coast sales increased, moving up 42 million gallons (10.3 percent) and 84.8 million gallons (38.8 percent) respectively. The drop in sales in the prime consuming region of the Northeast resulted from both a warmer winter than was the case in 2007 and from high prices. Prices rose rapidly during much of the first half of the year culminating in record high prices in July. Not only did commercial demand fall as a result of conservation efforts driven by the cost of fuel, but there are anecdotal reports of fuel switching (primarily to natural gas) as well.

Nationally, sales to the industrial sector fell 4.1 percent (100.7 million gallons) reflecting a drop in industrial production of 2.25 percent and in industrial utilization of 3.72 percent⁹. Regionally, sales of distillate fuel oil to the industrial sector fell on the East Coast and in the Midwest, dropping 73.0 million gallons (8.6 percent) and 86.0 million gallons (13.0 percent) respectively, while sales increased somewhat in the Rocky Mountains, on the Gulf Coast and the West Coast. Sales grew the most on the West Coast where they were up 47.7 million gallons (13.2 percent).

Dropping 103.0 million gallons (28.4 percent), distillate sales to the military fell for the first time since 2005. On a regional basis, sales fell in the Midwest, Gulf Coast, Rocky Mountains and the Middle Atlantic portion of the East Coast. The largest declines took place in the Middle Atlantic, a drop of 8.6 million gallons, on the Gulf Coast where sales fell 8.1 million gallons and on the Pacific Coast where sales dropped 92.2 million gallons (38.3 percent).

⁸ Hughes Christensen, Rotary Rigs Running by State 2008, Monthly Averages, <http://files.shareholder.com/downloads/BHI/459516224x0x263536/5D053E44-3A69-4F8D-96F3-8BBC65191581/U.S. Annual Averages by State 1987 - 2008 weekly revised.xls>

⁹ EIA, *Monthly Energy Review*, May 2009, Table 2.1.

Residual Fuel Oil

Reflecting both the long term trend of declining sales of residual fuel oil and the adverse economic conditions that affected sales of petroleum products in general during 2008, overall sales of residual fuel fell by 22.7 percent (2.4 billion gallons). Sales fell to all market segments with the exception of oil company use and the miscellaneous “other” category. Reflecting the volatility of the residual fuel oil market, by far the largest drops in sales were in the bunker and electric utility sectors, while in 2007, the sales increases were concentrated in those two sectors.

Sales of bunker fuel continued to represent the largest share of the residual fuel oil sales market (61.2 percent). The drop in sales of bunker fuel in 2008 exceeded the falloff in sales to all other market segments combined accounting for 52 percent of the total drop in sales (1.26 billion gallons). The next largest decrease was 948 million gallons to the electric utility market. There were also sizeable drops in sales to the commercial and industrial sectors down (77.7 million gallons and 153.4 million gallons respectively).

Over the past decade, overall sales of residual fuel oil have fallen by more than 40 percent. However, despite the downward trend, the period has been characterized by extreme volatility with precipitous swings in the volume of sales, particularly with respect to the electric utility sector. Beginning in 1998, annual sales to the electric power sector have fallen by at least one billion gallons three times but have increased by at least one billion gallons four times. Sales fell by 1.4 billion gallons in 1999, 2.1 billion gallons in 2002, and 3.3 billion gallons in 2006. Sales increased by 1.8 billion gallons in 1998, 1.3 billion gallons in 2001, 1.7 billion gallons in 2003, and 1.1 billion gallons in 2005.

The high degree of volatility is a reflection of changes in the electric power sector, weather conditions, the pricing structure of residual fuel oil and competing fuels, as well as other factors affecting the production and sales of residual fuel in general.

In 2005, prompted in part, by the high price of natural gas, and by constrained natural gas availability following the hurricane related damage to production and distribution facilities, there is evidence that concern over the supply of natural gas led to an increased use of oil and less emphasis on natural gas in at least one region of the country.¹⁰

However, in 2006, while the price of residual fuel to the electric power sector increased by 12.9 percent the price of natural gas to the sector fell by 15.7 percent.¹¹ Consequently, rising oil prices coupled with lower prices for a major competing fuel and the warmer than normal winter contributed to the very large drop of 3.3 billion gallons that year.

In 2007, the cool winter early in the year, helped boost sales and offset at least in part the rising fuel oil prices, particularly in November and December. In addition, the price of residual fuel used by electric utilities in 2007 increased by 7.9 percent on an annual basis, while the price of natural gas went up only by 2.3 percent. This compares to the situation in 2006, when residual fuel oil increased by 11.2 percent and natural gas prices dropped by 15.5 percent compared to 2005.¹² Consequently, sales to the electric power sector increased by 5.6 percent compared to a drop of 56.5 percent in 2006.

In 2008, the unprecedented spike in petroleum prices coupled with the rapid development of natural gas production from such shale deposits as Haynesville, Barnett, and Marcellus contributed to the drop in sales of nearly 36 percent. Consequently, total sales to the utility sector fell to less than 2 billion gallons for the first time.

Although the overall trend is down, the potential for some level of fluctuation in the amount of fuel sold remains possible whenever interruptible gas contracts take effect during the coldest winter periods and whenever price differentials make switching attractive. Fluctuations can occur either in the short-term or when prolonged higher prices of either residual fuel or natural gas make fuel switching attractive for the relative few with the ability to switch.

¹⁰ In October 2005, ISO New England approved the 2005 Regional System Plan that among other provisions called for the diversification of the fuel mix for the region, including the conversion of more than 1,000 megawatts of gas-only fired generation to dual fuel capability by the winter of 2009-2010. See ISO New England, 2005 Regional System Plan, October 20, 2005.

¹¹ EIA, *Monthly Energy Review*, May 2009, Table 9.1.

¹² EIA, *Monthly Energy Review*, May 2009, Table 9.10.

Nonetheless, the principle reasons for the decline in sales of residual fuel oil remain, changing crude oil specifications and the enhanced refinery sophistication resulting in increased production of gasoline and distillate at the expense of heavier products such as residual fuel oil. In addition, environmental constraints and restrictions on fuel oil use, and the availability of abundant relatively inexpensive natural gas have contributed to a diminished use of residual fuel oil in general and its use in the production of electric power in particular.¹³

Kerosene

For the third year in a row, kerosene sales dropped sharply. Total sales of kerosene fell to 274 million gallons, plunging by 55.6 percent, following a drop of 330 million gallons in 2007 and a 247 million gallon loss in 2006. Kerosene sales have plunged by 80 percent since 2005 bringing them to the lowest total in more than 25 years. Sales of kerosene fell to all market segments with the largest drop occurring in the residential sector where sales fell by 167.6 million (51.5 percent).

Sales to the residential sector fell without exception in all regions of the country with the largest declines

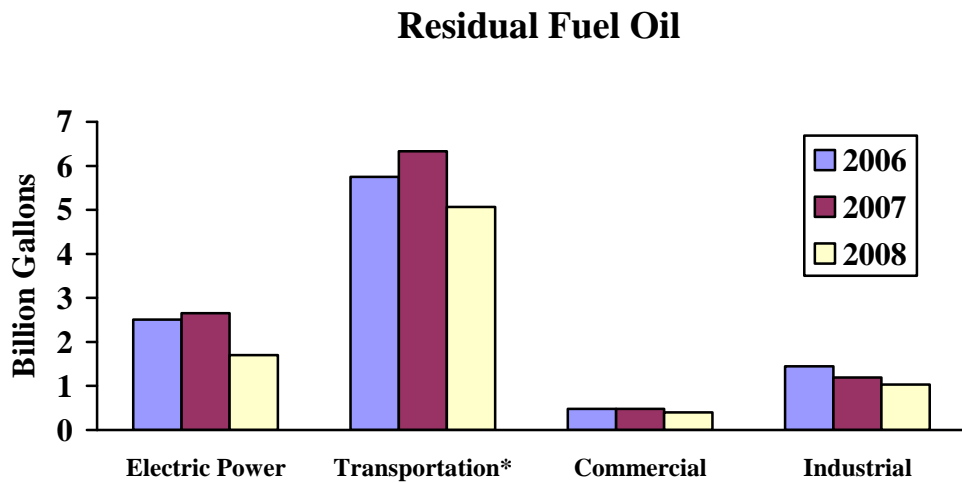
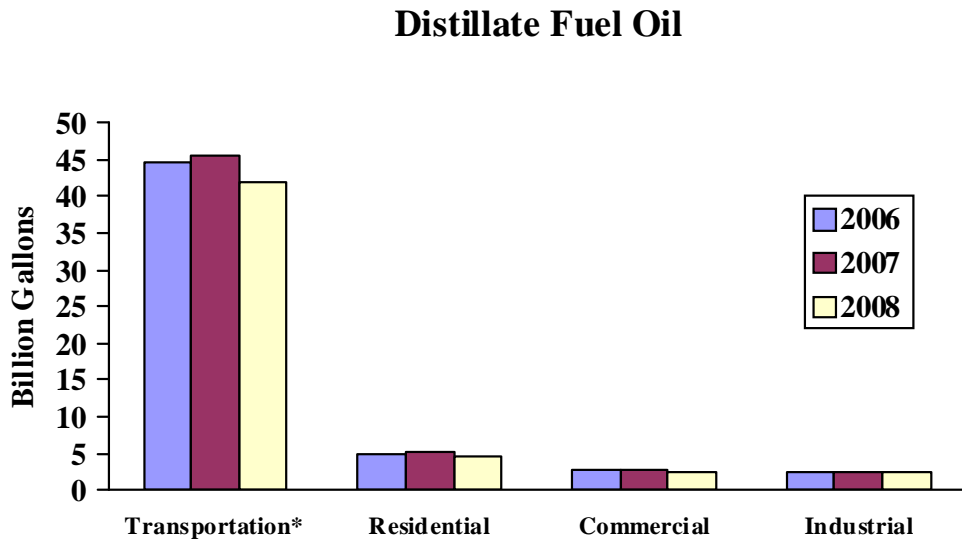
occurring along the East Coast from New England to Florida. Although the largest drop took place in the Northeast where sales are concentrated, the falloff in sales was significant in all regions of the country. Anecdotal evidence suggests that the fuel switching to natural gas and to some extent, to propane was primarily responsible for the drop in sales.

Sales to both the commercial and industrial sectors also fell in all regions of the country dropping by 36.3 million gallons (53.4 percent) and 65.2 million gallons (73.8 percent) respectively at the national level. In the commercial sector, the largest drop in sales occurred in the Central Atlantic, where sales went down by 59.4 percent (14.7 million gallons). Industrial sales dropped the most on the Gulf Coast where sales plunged 36.7 million gallons (86 percent).

Sales to the farm sector also fell in every region dropping by 45.8 percent nationally. The region with the largest drop in sales was the Midwest, where the principal farming states are located. Sales there fell by 2.4 million gallons (41 percent) and accounted for 55 percent of the drop in sales to the farm sector nationally.

¹³It should be noted that the ability to increase production of light higher value products does not typically mean that refineries with upgraded processing capacity no longer possess the ability to produce heavier products such as residual fuel; rather, the economics involved dictate the production of the higher value products. Due to the divestiture of many electric power generation facilities, changes in fuel use and plant operations also contributed to the decline of residual fuel oil. For example, operators of these merchant plants blend fuels to achieve greater efficiency and to lower emissions of dirtier fuels (oil blended with natural gas and even oil and coal). When it is advantageous, the operators also may purchase power rather than generate electricity and re-sell the fuel.

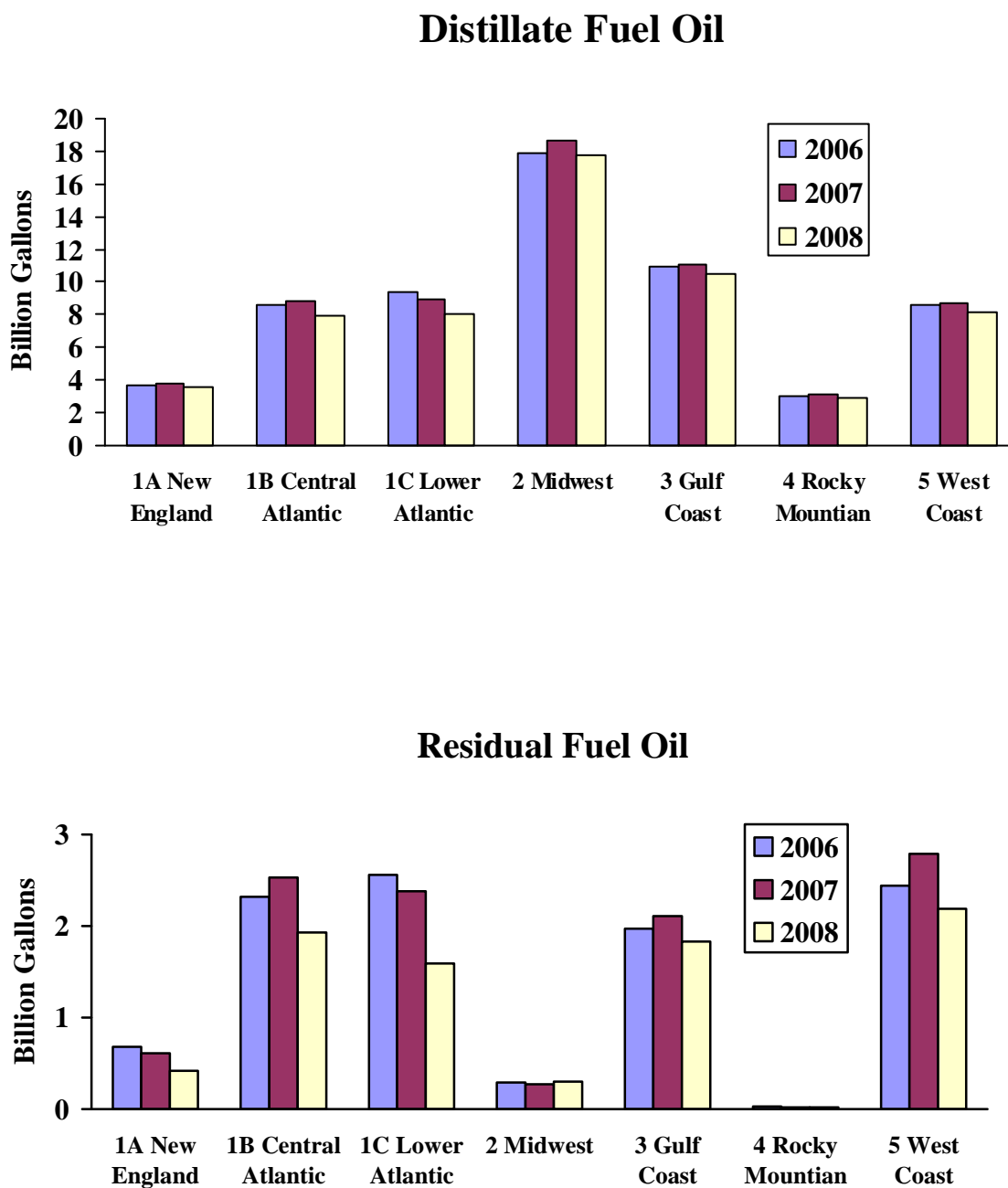
Figure HL1. U.S. Sales of Distillate and Residual Fuel Oils by Energy Use, 2006-2008



*For distillate fuel oil, transportation use comprises railroad, vessel bunkering, and on-highway diesel energy use categories. For residual fuel oil, transportation use comprises vessel bunkering energy use category.

Source: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 2007 and 2008.

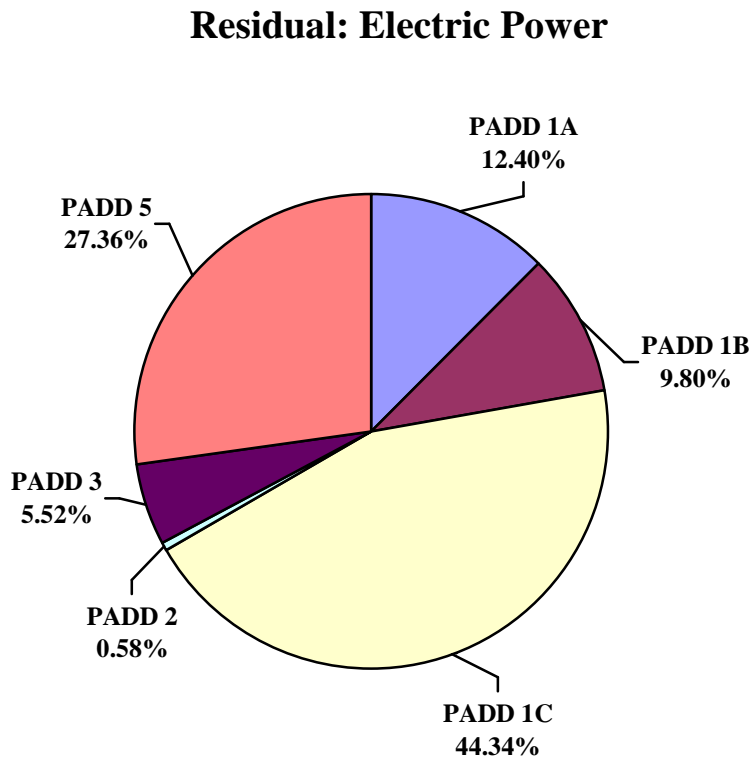
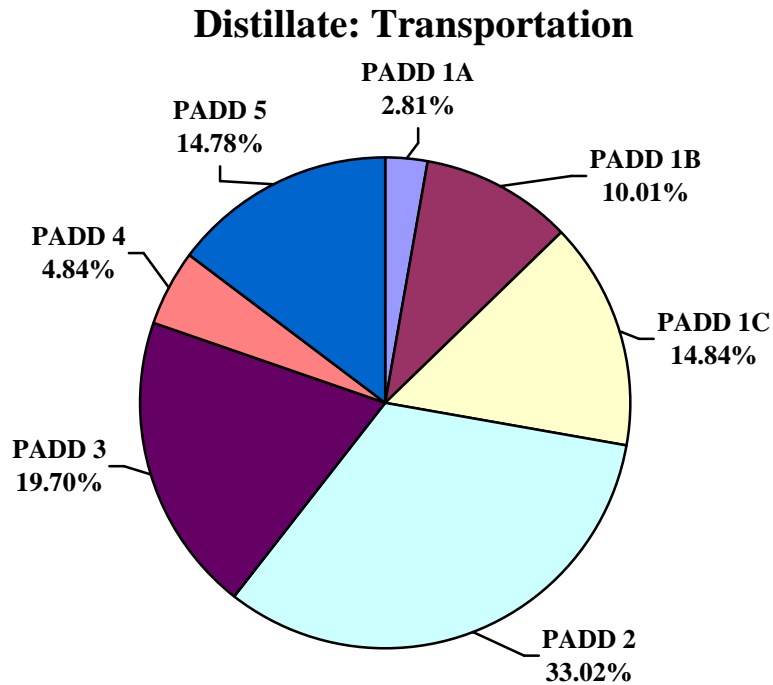
Figure HL2. Volume Distribution of Distillate and Residual Fuel Oils by PAD District, 2006-2008



*Residual fuel oil sales in PAD District 4 are too small to appear in the graph.

Source: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 2007 and 2008.

Figure HL3. Distillate and Residual Fuel Oil Sales for Selected Energy Use Categories by PADD District, 2008



*Residual fuel oil sales in PAD District 4 are too small to appear in the graph.

Source: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 2008.

Table 1. Sales of Distillate Fuel Oil by Energy Use in the United States: 2004-2008
(Thousand Gallons)

Energy Use	Distillate Fuel Oil				
	2004	2005	2006	2007	2008
U.S. Total	62,257,934	63,164,569	62,192,027	63,210,781	58,739,792
Residential	6,644,939	6,154,461	4,984,826	5,141,642	4,631,195
Commercial	3,383,061	3,224,216	2,808,786	2,718,674	2,572,260
Industrial	2,326,604	2,459,711	2,463,676	2,466,906	2,366,164
Oil Company	472,920	472,922	636,788	774,984	990,254
Farm	3,189,014	3,215,819	3,261,345	3,202,847	3,212,359
Electric Power	823,380	906,976	656,355	669,951	544,295
Railroad	3,047,491	3,447,630	3,552,430	3,634,512	2,696,738
Vessel Bunkering	2,139,643	2,005,564	1,903,138	1,923,981	1,187,490
On-Highway Diesel	37,125,239	38,053,129	39,118,301	39,801,744	38,006,669
Military	358,682	268,553	327,827	363,145	260,120
Off-Highway	2,746,960	2,955,589	2,478,554	2,512,394	2,272,249

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2004-2008. • On-Highway Diesel data are Federal Highway Administration statistics of highway special fuels use.

Table 2. Sales of Residual Fuel Oil by Energy Use in the United States: 2004-2008
(Thousand Gallons)

Energy Use	Residual Fuel Oil				
	2004	2005	2006	2007	2008
U.S. Total	11,794,362	13,442,165	10,273,631	10,706,479	8,272,952
Commercial	781,944	720,361	479,124	481,368	403,699
Industrial	1,539,830	1,670,563	1,451,730	1,187,319	1,033,904
Oil Company	46,818	74,048	65,247	43,972	57,839
Electric Power	4,704,027	5,763,623	2,505,724	2,646,574	1,698,884
Vessel Bunkering	4,690,454	5,178,560	5,753,592	6,326,931	5,065,692
Military	30,286	29,638	12,005	17,719	9,262
All Other	1,004	5,373	6,209	2,595	3,672

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2004-2008.

Table 3. Sales of Kerosene by Energy Use in the United States: 2004-2008
(Thousand Gallons)

Energy Use	Kerosene				
	2004	2005	2006	2007	2008
U.S. Total	988,680	1,070,160	822,990	492,702	218,736
Residential	627,842	620,767	491,508	325,320	157,694
Commercial	151,811	159,943	112,392	67,960	31,639
Industrial	192,588	267,450	202,590	88,372	23,185
Farm	14,757	19,875	15,064	9,531	5,169
All Other	1,683	2,124	1,435	1,520	1,050

Notes: • See Technical Note 3 for further explanation on adjustments. • Kerosene data in the Sales tables (1-12) are adjusted at the national level. • Totals may not equal sum of components due to independent rounding.

Sources: • Kerosene data are based on data from the Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2004-2008 and the "Petroleum Supply Annual," Volume 1, 2004-2008, (DOE/EIA-0340(04)/1 - (08)/1).

Table 4. Sales of Distillate Fuel Oil by Energy Use, 2007 and 2008

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	2007	2008	2007	2008	2007	2008
U.S. Total	5,141,642	4,631,195	2,718,674	2,572,260	2,466,906	2,366,164
PAD District 1 Total	4,588,225	4,118,784	1,796,285	1,555,596	846,364	773,351
Subdistrict 1A Total	1,871,074	1,743,044	468,464	400,529	57,624	54,201
Connecticut	537,757	514,156	107,555	101,797	13,312	10,017
Maine	299,181	247,877	120,883	107,056	16,275	16,285
Massachusetts	655,105	620,117	134,184	103,001	13,617	9,903
New Hampshire	167,819	166,306	45,883	40,693	5,618	6,444
Rhode Island	122,222	115,156	28,361	24,052	2,119	1,884
Vermont	88,989	79,431	31,598	23,930	6,683	9,668
Subdistrict 1B Total	2,432,099	2,125,739	1,014,960	886,863	294,847	268,167
Delaware	26,321	23,461	9,866	8,121	2,023	2,173
District of Columbia	8,450	6,185	12,537	8,646	43	80
Maryland	138,227	123,466	49,023	49,070	14,492	18,323
New Jersey	310,493	276,444	138,133	93,059	13,533	9,501
New York	1,241,652	1,088,618	602,467	526,526	55,449	48,999
Pennsylvania	706,956	607,565	202,934	201,441	209,307	189,090
Subdistrict 1C Total	285,053	250,000	312,861	268,204	493,893	450,983
Florida	2,078	1,145	95,117	102,377	69,245	51,598
Georgia	1,167	1,212	34,434	26,118	43,792	38,689
North Carolina	81,348	66,087	61,936	46,545	58,358	33,279
South Carolina	7,074	6,032	28,558	25,566	21,806	16,771
Virginia	179,774	161,923	86,146	62,107	120,505	106,389
West Virginia	13,612	13,601	6,670	5,491	180,188	204,257
PAD District 2 Total	392,590	362,627	408,902	450,924	659,540	573,648
Illinois	6,382	7,186	30,674	47,802	70,444	65,130
Indiana	19,667	21,386	41,092	48,691	82,027	63,753
Iowa	9,450	9,402	10,183	13,223	11,772	8,014
Kansas	95	148	10,996	11,451	11,236	9,693
Kentucky	10,121	9,398	27,247	20,262	141,726	175,484
Michigan	56,569	46,685	46,545	41,584	32,062	23,459
Minnesota	63,696	59,111	29,998	34,700	37,853	36,340
Missouri	5,897	4,062	15,195	22,129	32,626	26,049
Nebraska	2,171	2,016	7,793	11,795	5,056	3,546
North Dakota	19,370	24,083	6,605	9,082	20,462	21,575
Ohio	103,715	83,817	72,823	79,276	57,854	54,619
Oklahoma	1,244	47	19,505	25,351	10,418	7,537
South Dakota	7,291	7,534	9,285	6,770	16,183	3,868
Tennessee	5,239	6,085	39,285	27,233	45,094	21,429
Wisconsin	81,682	81,668	41,676	51,574	84,722	53,152
PAD District 3 Total	863	2,442	236,506	203,952	357,802	366,897
Alabama	344	391	52,166	40,124	106,365	101,944
Arkansas	129	69	3,718	4,384	20,854	58,316
Louisiana	217	1,867	25,227	23,244	27,537	27,929
Mississippi	12	13	46,890	21,012	15,206	18,969
New Mexico	150	93	7,798	24,812	34,612	39,341
Texas	11	11	100,706	90,376	153,228	120,399
PAD District 4 Total	21,100	17,246	58,467	58,435	242,227	243,555
Colorado	314	333	18,436	18,909	36,607	34,359
Idaho	10,233	8,949	10,609	9,257	16,961	16,872
Montana	8,116	6,545	7,207	7,988	42,205	31,317
Utah	1,157	729	18,633	17,880	42,642	43,042
Wyoming	1,280	690	3,581	4,400	103,812	117,965
PAD District 5 Total	138,864	130,095	218,514	303,354	360,973	408,712
Alaska	60,151	51,063	40,472	48,139	53,604	49,472
Arizona	93	91	26,423	50,039	91,248	144,108
California	3,953	5,898	75,638	106,584	56,739	49,053
Hawaii	132	108	11,619	9,345	4,230	2,716
Nevada	6,064	6,856	12,607	12,458	114,116	103,136
Oregon	23,014	23,198	19,438	23,640	18,645	25,825
Washington	45,457	42,881	32,317	53,149	22,392	34,402

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by Energy Use, 2007 and 2008 (Continued)

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Power	
	2007	2008	2007	2008	2007	2008
U.S. Total	774,984	990,254	3,202,847	3,212,359	669,951	544,295
PAD District 1 Total	31,154	28,437	370,159	365,794	276,242	173,770
Subdistrict 1A Total	332	26	24,850	30,222	12,831	12,412
Connecticut	332	26	2,164	2,339	6,032	3,958
Maine	—	—	10,710	14,096	652	11
Massachusetts	—	—	3,474	1,392	2,473	5,367
New Hampshire	—	—	3,114	5,397	1,992	869
Rhode Island	—	—	87	94	1,505	1,874
Vermont	—	—	5,301	6,904	176	333
Subdistrict 1B Total	14,850	10,623	102,108	105,733	132,685	77,726
Delaware	7,100	3,203	5,839	4,695	2,166	2,077
District of Columbia	—	—	—	—	6,078	5,633
Maryland	—	128	13,739	16,675	30,879	14,313
New Jersey	—	396	2,602	2,490	24,095	8,607
New York	10	877	42,374	41,076	6,302	16,793
Pennsylvania	7,741	6,019	37,554	40,797	63,164	30,303
Subdistrict 1C Total	15,972	17,787	243,200	229,839	130,726	83,632
Florida	53	66	69,001	73,210	59,084	34,707
Georgia	188	216	68,672	67,578	1,557	13,865
North Carolina	153	62	49,930	36,645	22,223	8,263
South Carolina	329	332	20,374	17,278	10,901	8,520
Virginia	731	661	33,607	33,563	25,234	7,719
West Virginia	14,518	16,450	1,617	1,565	11,727	10,558
PAD District 2 Total	121,086	147,572	1,610,145	1,612,038	194,185	180,124
Illinois	79	52	176,343	175,209	16,302	20,558
Indiana	3,065	958	136,874	118,524	29,220	27,618
Iowa	—	—	156,614	162,662	20,112	7,500
Kansas	20,126	15,464	149,235	163,414	3,798	2,755
Kentucky	3,136	1,432	24,308	25,307	5,066	11,379
Michigan	1,997	15,552	48,251	47,374	19,502	27,811
Minnesota	756	661	115,871	110,462	13,338	7,168
Missouri	—	1	138,527	114,267	4,736	4,445
Nebraska	1,843	5	200,893	204,131	1,880	4,234
North Dakota	26,059	43,977	101,404	123,102	3,230	3,284
Ohio	6,312	4,827	110,364	121,600	30,261	34,991
Oklahoma	57,149	64,643	57,403	55,653	7,307	6,496
South Dakota	95	—	60,374	60,331	5,378	333
Tennessee	8	—	36,162	25,682	21,980	16,996
Wisconsin	462	—	97,520	104,320	12,074	4,555
PAD District 3 Total	397,768	554,669	624,106	598,750	31,646	34,820
Alabama	320	705	32,659	35,626	2,012	10,729
Arkansas	11,345	16,158	212,255	202,896	3,286	330
Louisiana	54,416	65,644	51,521	56,616	1,379	3,006
Mississippi	3,823	7,262	50,123	36,366	1,729	3,106
New Mexico	23,168	22,014	34,910	18,177	1,911	758
Texas	304,695	442,886	242,638	249,071	21,329	16,892
PAD District 4 Total	170,071	205,025	216,598	195,460	5,794	2,555
Colorado	69,933	88,490	44,100	37,752	704	1,020
Idaho	—	—	54,850	52,791	28	13
Montana	17,060	13,125	102,966	90,804	1,603	1,312
Utah	25,275	33,788	6,056	4,802	1,024	83
Wyoming	57,803	69,622	8,625	9,312	2,435	127
PAD District 5 Total	54,905	54,552	381,840	440,316	162,085	153,025
Alaska	40,742	41,306	46	94	47,477	42,882
Arizona	120	77	19,184	29,374	4,838	4,344
California	12,487	12,664	268,185	302,532	4,173	6,143
Hawaii	840	1	4,103	3,537	102,522	89,518
Nevada	617	273	3,035	2,738	811	1,070
Oregon	—	—	27,516	28,348	1,446	3,133
Washington	98	231	59,771	73,693	817	5,935

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by Energy Use, 2007 and 2008 (Continued)

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	2007	2008	2007	2008	2007	2008
U.S. Total	3,634,512	2,696,738	1,923,981	1,187,490	39,801,744	38,006,669
PAD District 1 Total	580,632	483,176	466,132	323,871	11,739,455	10,782,225
Subdistrict 1A Total	69,282	39,228	43,014	59,579	1,123,563	1,080,387
Connecticut	4,450	3,219	6,654	3,119	303,570	292,777
Maine	126	1,691	8,298	4,407	181,010	180,338
Massachusetts	63,896	32,029	21,336	43,976	402,629	375,527
New Hampshire	119	126	2,740	2,394	97,695	97,866
Rhode Island	13	72	3,987	5,682	73,882	73,488
Vermont	678	2,091	—	—	64,777	60,391
Subdistrict 1B Total	210,461	175,297	147,629	62,011	4,232,345	3,957,029
Delaware	1,404	1,117	615	406	66,271	59,587
District of Columbia	—	—	11	—	10,710	15,892
Maryland	11,546	2,860	21,380	9,095	573,321	529,023
New Jersey	15,616	15,025	87,549	21,343	988,732	902,201
New York	63,226	42,829	12,339	9,364	1,118,505	1,120,424
Pennsylvania	118,670	113,466	25,735	21,803	1,474,806	1,329,902
Subdistrict 1C Total	300,889	268,651	275,489	202,281	6,383,547	5,744,809
Florida	74,409	63,435	145,269	143,399	1,670,536	1,478,963
Georgia	78,927	68,708	14,016	10,533	1,508,118	1,325,065
North Carolina	47,855	28,423	8,009	7,279	1,076,721	968,814
South Carolina	11,321	14,598	18,795	15,581	722,868	667,949
Virginia	72,611	78,431	43,971	14,085	1,111,050	1,017,285
West Virginia	15,766	15,056	45,429	11,403	294,254	286,733
PAD District 2 Total	1,561,277	1,072,535	386,653	178,434	12,627,117	12,581,260
Illinois	40,116	49,841	71,805	58,698	1,516,293	1,436,180
Indiana	65,820	50,638	29,805	23,950	1,356,498	1,302,530
Iowa	58,640	23,962	4,867	240	648,924	643,923
Kansas	92,323	82,208	—	—	489,575	480,947
Kentucky	170,042	87,902	91,516	34,356	875,135	821,452
Michigan	49,528	10,686	8,900	6,752	906,538	838,960
Minnesota	123,390	76,058	7,551	18,986	673,758	1,120,424
Missouri	27,467	11,470	34,158	869	1,087,199	985,489
Nebraska	12,732	12,227	—	—	434,093	406,238
North Dakota	124,832	58,499	—	—	177,467	193,615
Ohio	333,069	129,567	12,122	17,732	1,597,741	1,494,837
Oklahoma	348,832	391,779	10,764	10	840,366	906,265
South Dakota	8,572	5,957	—	—	202,607	198,713
Tennessee	76,692	34,092	114,703	16,187	1,061,941	1,002,320
Wisconsin	29,222	47,648	461	653	758,982	749,367
PAD District 3 Total	699,882	553,958	613,864	359,740	7,615,389	7,339,373
Alabama	59,852	41,895	36,334	58,091	848,402	736,864
Arkansas	20,237	15,085	420	48,853	673,079	627,835
Louisiana	43,862	22,228	351,726	130,583	703,016	690,761
Mississippi	46,730	22,495	93,581	44,595	625,746	623,455
New Mexico	6,152	1,827	—	—	531,013	473,827
Texas	523,049	450,428	131,803	77,618	4,234,133	4,186,631
PAD District 4 Total	262,644	133,496	27	24	1,999,274	1,892,277
Colorado	4,014	4,336	2	1	588,910	566,484
Idaho	21,070	14,443	25	22	275,706	243,942
Montana	107,710	8,213	—	—	263,696	250,145
Utah	44,721	24,084	—	—	480,993	446,206
Wyoming	85,129	82,420	—	—	389,969	385,500
PAD District 5 Total	530,077	453,572	457,306	325,422	5,820,509	5,411,534
Alaska	6,419	6,089	127,614	96,685	174,112	171,682
Arizona	11,940	6,794	1	1	865,536	792,938
California	317,292	260,977	104,583	81,169	3,091,491	2,838,723
Hawaii	4	6	129,743	57,365	52,692	56,394
Nevada	6,874	6,640	25	22	378,182	329,292
Oregon	82,369	94,836	20,502	13,001	560,598	534,203
Washington	105,180	78,230	74,838	77,180	697,898	688,302

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by Energy Use, 2007 and 2008 (Continued)

(Thousand Gallons)

Destination	Military		Off-Highway		Total	
	2007	2008	2007	2008	2007	2008
U.S. Total	363,145	260,120	2,512,394	2,272,249	63,210,781	58,739,792
PAD District 1 Total	65,650	62,058	833,519	772,892	21,593,817	19,439,953
Subdistrict 1A Total	12,611	16,825	92,754	108,887	3,776,398	3,545,340
Connecticut	1,660	962	21,159	19,200	1,004,646	951,571
Maine	5,349	7,766	12,193	13,983	654,677	593,510
Massachusetts	2,382	3,105	39,016	53,767	1,338,113	1,248,184
New Hampshire	1,390	3,220	11,495	14,361	337,864	337,677
Rhode Island	1,735	1,403	4,540	2,026	238,451	225,731
Vermont	93	368	4,352	5,550	202,646	188,666
Subdistrict 1B Total	28,387	19,757	226,685	202,509	8,837,056	7,891,455
Delaware	180	127	3,149	2,821	124,934	107,790
District of Columbia	598	289	1,988	1,222	40,414	37,946
Maryland	6,441	6,428	35,368	33,905	894,416	803,287
New Jersey	3,996	2,068	65,404	60,935	1,650,152	1,392,069
New York	8,174	3,929	51,681	45,684	3,202,178	2,945,121
Pennsylvania	8,998	6,916	69,096	57,941	2,924,962	2,605,242
Subdistrict 1C Total	24,653	25,476	514,080	461,496	8,980,363	8,003,158
Florida	4,444	4,796	124,123	114,038	2,313,357	2,067,734
Georgia	2,515	2,931	124,009	105,580	1,877,394	1,660,497
North Carolina	4,268	4,462	53,366	40,960	1,464,166	1,240,819
South Carolina	6,487	8,304	51,781	52,029	900,294	832,961
Virginia	6,369	4,827	138,601	129,181	1,818,600	1,616,170
West Virginia	570	156	22,201	19,708	606,552	584,978
PAD District 2 Total	8,416	8,980	686,931	643,887	18,656,841	17,812,029
Illinois	266	305	110,067	97,645	2,038,772	1,958,607
Indiana	12	220	33,460	46,237	1,797,540	1,704,506
Iowa	38	37	24,765	23,103	945,366	892,067
Kansas	822	606	21,572	15,659	799,779	782,345
Kentucky	1,107	775	26,757	30,906	1,376,160	1,218,653
Michigan	1,184	2,058	47,782	46,808	1,218,859	1,107,730
Minnesota	293	385	57,964	76,595	1,124,468	1,540,888
Missouri	2,403	2,449	68,262	61,017	1,416,469	1,232,247
Nebraska	48	117	44,362	10,936	710,871	655,246
North Dakota	367	417	11,741	10,378	491,537	488,012
Ohio	72	653	68,156	68,128	2,392,490	2,090,046
Oklahoma	452	303	44,661	40,820	1,398,102	1,498,902
South Dakota	929	136	10,282	8,916	320,995	292,557
Tennessee	181	94	65,938	58,043	1,467,222	1,208,161
Wisconsin	240	426	51,163	48,696	1,158,209	1,142,060
PAD District 3 Total	46,862	38,754	480,332	405,462	11,105,020	10,458,817
Alabama	2,622	1,199	62,743	65,055	1,203,820	1,092,622
Arkansas	284	273	48,044	21,996	993,651	996,193
Louisiana	11,319	912	76,131	74,020	1,346,351	1,096,809
Mississippi	775	102	59,253	46,298	943,868	823,671
New Mexico	839	540	3,235	14,623	643,787	596,011
Texas	31,023	35,729	230,926	183,470	5,973,542	5,853,510
PAD District 4 Total	1,188	1,520	149,317	120,075	3,126,705	2,869,668
Colorado	553	780	48,550	40,883	812,123	793,348
Idaho	247	21	23,362	17,411	413,091	363,721
Montana	377	697	22,325	20,993	573,264	431,139
Utah	11	21	35,219	28,961	655,731	599,597
Wyoming	—	—	19,860	11,826	672,495	681,863
PAD District 5 Total	241,029	148,807	362,295	329,934	8,728,398	8,159,325
Alaska	12,390	11,195	16,599	21,155	579,626	539,761
Arizona	1,237	1,240	66,808	63,733	1,087,428	1,092,740
California	11,984	8,863	135,327	110,089	4,081,853	3,782,694
Hawaii	75,189	1,912	9,414	8,356	390,488	229,258
Nevada	1,868	1,412	29,733	23,660	553,932	487,557
Oregon	2,027	385	22,925	31,468	778,480	778,036
Washington	136,335	123,801	81,488	71,474	1,256,591	1,249,278

^E Estimated data. Since 2008 data were not available, estimate is based on 2007 data.

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2007-2008. • On-Highway Diesel data are Federal Highway Administration statistics of highway special fuels use.

Table 5. Sales of Residual Fuel Oil by Energy Use, 2007 and 2008

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Power	
	2007	2008	2007	2008	2007	2008	2007	2008
U.S. Total	481,368	403,699	1,187,319	1,033,904	43,972	57,839	2,646,574	1,698,884
PAD District 1 Total	472,519	392,036	772,907	542,163	21,290	7,593	2,086,738	1,130,452
Subdistrict 1A Total	88,161	86,915	194,642	109,340	705	178	311,508	210,645
Connecticut	7,629	3,783	15,585	4,988	150	178	64,049	23,786
Maine	16,375	26,662	110,736	70,931	532	—	16,478	10,900
Massachusetts	33,527	34,044	38,842	13,848	—	—	216,876	157,098
New Hampshire	17,736	12,731	16,359	12,637	23	—	14,105	18,852
Rhode Island	9,405	5,811	7,042	2,745	—	—	—	8
Vermont	3,490	3,884	6,077	4,190	—	—	—	—
Subdistrict 1B Total	380,176	299,425	157,892	121,678	20,584	7,113	715,339	166,514
Delaware	4,287	462	20,848	17,250	—	—	6,126	—
Maryland	730	404	25,380	17,808	873	669	47,519	12,052
New Jersey	9,362	16,764	19,158	9,826	1,409	1,420	85,241	19,939
New York	350,182	273,185	58,026	43,983	614	467	545,808	103,837
Pennsylvania	15,615	8,610	34,481	32,810	17,688	4,556	30,645	30,686
Subdistrict 1C Total	4,183	5,696	420,373	311,145	—	303	1,059,892	753,294
Florida	1,650	3,365	70,614	53,136	—	—	978,266	716,784
Georgia	—	—	53,905	26,605	—	—	—	—
North Carolina	1,224	1,619	125,901	101,660	—	—	—	—
South Carolina	578	20	64,368	36,865	—	110	—	—
Virginia	731	692	65,477	71,317	—	193	81,625	36,510
West Virginia	—	—	40,108	21,562	—	—	—	—
PAD District 2 Total	6,778	9,915	190,490	229,036	2,498	2,801	20,280	9,774
Illinois	—	82	3,396	4,078	—	—	—	—
Indiana	145	61	10,127	10,198	2,498	2,801	—	—
Iowa	—	—	1,777	5,080	—	—	—	—
Kansas	—	—	18,637	36,605	—	—	—	—
Kentucky	—	—	4,152	1	—	—	—	—
Michigan	—	1,935	38,415	38,687	—	—	16,605	4,477
Minnesota	3,528	5,215	31,656	39,399	—	—	3,675	4,132
Missouri	235	32	1,182	1,157	—	—	—	—
Nebraska	—	1,364	1,885	1,247	—	—	—	1,165
North Dakota	1,039	420	1,315	1,093	—	—	—	—
Ohio	36	289	35,608	44,696	—	—	—	—
Oklahoma	—	—	5,218	14,468	—	—	—	—
South Dakota	484	321	901	1,277	—	—	—	—
Tennessee	320	160	6,516	5,497	—	—	—	—
Wisconsin	991	35	29,706	25,554	—	—	—	—
PAD District 3 Total	554	272	195,360	235,817	10	17,544	53,757	93,852
Alabama	—	—	32,694	36,711	—	—	—	—
Arkansas	—	—	2,770	1,583	—	—	2,709	1,917
Louisiana	—	—	23,681	56,199	—	17,077	23,750	30,320
Mississippi	—	9	4,587	4,356	10	12	27,298	4,614
New Mexico	—	—	6,347	8,172	—	—	—	—
Texas	554	264	125,281	128,797	—	455	—	57,000
PAD District 4 Total	—	—	13,905	17,197	3,052	1,813	—	—
Colorado	—	—	—	90	—	—	—	—
Idaho	—	—	1,484	—	—	—	—	—
Utah	—	—	12,404	15,736	—	—	—	—
Wyoming	—	—	16	1,371	3,052	1,813	—	—
PAD District 5 Total	1,517	1,476	14,658	9,690	17,123	28,088	485,799	464,805
Alaska	—	21	—	—	—	14	—	—
Arizona	—	—	868	—	—	—	—	—
California	—	—	422	1,580	—	12,542	—	697
Hawaii	16	—	57	—	17,123	15,532	485,799	464,108
Nevada	193	—	—	—	—	—	—	—
Oregon	1,296	1,454	13,174	7,869	—	—	—	—
Washington	12	—	137	242	—	—	—	—

See footnotes at end of table.

Table 5. Sales of Residual Fuel Oil by Energy Use, 2007 and 2008 (Continued)

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	2007	2008	2007	2008	2007	2008	2007	2008
U.S. Total	6,326,931	5,065,692	17,719	9,262	2,595	3,672	10,706,479	8,272,952
PAD District 1 Total	2,158,105	1,857,726	15,618	8,651	58	153	5,527,235	3,938,776
Subdistrict 1A Total	18,029	13,022	1,880	729	40	30	614,965	420,858
Connecticut	—	—	599	729	40	30	88,053	33,494
Maine	7,960	2,091	—	—	—	—	152,082	110,585
Massachusetts	10,004	10,838	1,280	—	—	—	300,530	215,829
New Hampshire	—	—	—	—	—	—	48,224	44,220
Rhode Island	64	93	—	—	—	—	16,510	8,657
Vermont	—	—	—	—	—	—	9,567	8,074
Subdistrict 1B Total	1,247,389	1,327,839	7,518	7,012	17	27	2,528,915	1,929,608
Delaware	49,908	43,707	—	—	—	—	81,168	61,419
Maryland	22,681	20,934	6,638	6,291	—	—	103,821	58,158
New Jersey	754,876	767,803	—	—	—	—	870,047	815,753
New York	283,549	369,650	—	—	17	27	1,238,197	791,150
Pennsylvania	136,375	125,744	880	721	—	—	235,683	203,128
Subdistrict 1C Total	892,688	516,865	6,221	911	—	96	2,383,355	1,588,309
Florida	532,292	151,832	—	25	—	—	1,582,822	925,142
Georgia	226,914	253,425	—	—	—	—	280,819	280,031
North Carolina	23,066	26,091	606	—	—	—	150,796	129,370
South Carolina	62,748	50,900	—	45	—	—	127,694	87,939
Virginia	47,667	34,617	5,615	841	—	96	201,116	144,266
West Virginia	—	—	—	—	—	—	40,108	21,562
PAD District 2 Total	42,526	46,330	—	—	2,538	3,519	265,110	301,375
Illinois	1,486	1,211	—	—	—	—	4,882	5,371
Indiana	11,520	13,016	—	—	—	—	24,290	26,075
Iowa	—	—	—	—	—	—	1,777	5,080
Kansas	—	—	—	—	—	—	18,637	36,605
Kentucky	—	—	—	—	—	—	4,152	1
Michigan	11,543	7,533	—	—	412	1,746	66,975	54,377
Minnesota	16,123	22,754	—	—	—	—	54,982	71,500
Missouri	109	—	—	—	—	—	1,526	1,189
Nebraska	—	—	—	—	—	—	1,885	3,776
North Dakota	—	—	—	—	1,414	1,773	3,768	3,286
Ohio	133	—	—	—	711	—	36,488	44,986
Oklahoma	—	—	—	—	—	—	5,218	14,468
South Dakota	—	—	—	—	—	—	1,385	1,598
Tennessee	190	1,585	—	—	—	—	7,026	7,242
Wisconsin	1,423	232	—	—	—	—	32,119	25,822
PAD District 3 Total	1,858,360	1,481,165	417	—	—	—	2,108,458	1,828,651
Alabama	54,051	40,252	—	—	—	—	86,745	76,963
Arkansas	—	—	—	—	—	—	5,479	3,500
Louisiana	593,392	521,574	—	—	—	—	640,823	625,171
Mississippi	27,462	23,251	—	—	—	—	59,357	32,241
New Mexico	—	—	—	—	—	—	6,347	8,172
Texas	1,183,455	896,088	417	—	—	—	1,309,707	1,082,604
PAD District 4 Total	—	—	—	—	—	—	16,956	19,010
Colorado	—	—	—	—	—	—	—	90
Idaho	—	—	—	—	—	—	1,484	—
Utah	—	—	—	—	—	—	12,404	15,736
Wyoming	—	—	—	—	—	—	3,068	3,183
PAD District 5 Total	2,267,939	1,680,470	1,685	611	—	—	2,788,720	2,185,141
Alaska	10,554	6,897	—	—	—	—	10,554	6,932
Arizona	—	—	—	—	—	—	868	—
California	1,590,104	1,424,562	1,680	611	—	—	1,592,207	1,439,992
Hawaii	179,226	34,962	—	—	—	—	682,220	514,602
Nevada	—	—	5	—	—	—	198	—
Oregon	87,456	53,125	—	—	—	—	101,927	62,449
Washington	400,599	160,924	—	—	—	—	400,747	161,165

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2007-2008.

Table 6. Sales of Kerosene by Energy Use, 2007 and 2008

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	2007	2008	2007	2008	2007	2008
U.S. Total	325,320	157,694	67,960	31,639	88,372	23,185
PAD District 1 Total	267,992	126,752	47,683	20,511	34,350	12,994
Subdistrict 1A Total	75,986	38,602	10,169	5,785	7,027	4,760
Connecticut	5,428	2,345	1,425	1,561	6,143	3,906
Maine	40,203	20,942	4,903	2,401	661	230
Massachusetts	6,783	2,788	1,046	901	84	11
New Hampshire	12,493	6,698	1,644	561	103	249
Rhode Island	675	517	24	72	1	155
Vermont	10,403	5,312	1,127	289	35	209
Subdistrict 1B Total	109,558	50,451	24,834	10,086	22,319	7,324
Delaware	2,040	1,230	471	277	5	2
District of Columbia	—	—	40	2	—	—
Maryland	9,449	4,348	1,721	492	207	152
New Jersey	3,027	2,059	4,516	2,359	10,815	4,490
New York	55,341	24,957	10,268	4,374	8,195	1,669
Pennsylvania	39,702	17,857	7,818	2,581	3,096	1,011
Subdistrict 1C Total	82,448	37,699	12,680	4,640	5,004	909
Florida	838	632	523	221	87	53
Georgia	1,641	787	551	313	3,729	234
North Carolina	35,666	15,812	2,990	1,461	78	34
South Carolina	8,055	3,587	774	803	148	57
Virginia	31,072	14,610	6,789	1,218	768	455
West Virginia	5,175	2,271	1,053	624	193	78
PAD District 2 Total	39,150	20,336	9,905	4,765	10,051	3,639
Illinois	2,186	1,097	1,494	284	2,952	595
Indiana	5,425	3,256	1,172	575	375	270
Iowa	418	226	129	46	94	—
Kansas	93	66	168	102	19	402
Kentucky	4,184	2,391	434	241	440	356
Michigan	4,008	2,298	330	332	576	253
Minnesota	470	304	436	259	85	27
Missouri	2,273	939	381	143	109	490
Nebraska	256	113	55	43	5	1
North Dakota	99	57	52	37	197	9
Ohio	10,208	5,699	3,514	1,828	4,269	722
Oklahoma	338	139	342	182	356	153
South Dakota	64	51	7	3	—	1
Tennessee	8,561	3,333	1,017	431	376	282
Wisconsin	568	367	374	259	198	77
PAD District 3 Total	2,905	1,064	2,917	1,913	42,668	5,962
Alabama	1,340	385	200	111	901	471
Arkansas	262	109	371	251	41	70
Louisiana	255	121	284	174	34,981	290
Mississippi	539	178	187	86	1,272	820
New Mexico	111	46	68	9	5	33
Texas	398	226	1,808	1,282	5,468	4,278
PAD District 4 Total	518	357	388	290	171	79
Colorado	268	148	193	109	89	49
Idaho	88	58	22	15	6	4
Montana	35	100	4	55	3	2
Utah	101	40	150	98	42	23
Wyoming	26	12	19	13	31	1
PAD District 5 Total	14,755	9,185	7,067	4,161	1,133	510
Alaska	6,773	3,830	4,465	2,591	1	1
Arizona	16	11	97	20	52	18
California	6,399	3,871	1,297	619	959	344
Hawaii	—	—	—	—	2	1
Nevada	709	457	249	156	5	4
Oregon	328	485	535	472	47	53
Washington	531	532	425	302	67	90

See footnotes at end of table.

Table 6. Sales of Kerosene by Energy Use, 2007 and 2008 (Continued)

(Thousand Gallons)

Destination	Farm		All Other		Total	
	2007	2008	2007	2008	2007	2008
U.S. Total	9,531	5,169	1,520	1,050	492,702	218,736
PAD District 1 Total	2,946	1,250	795	270	353,765	161,776
Subdistrict 1A Total	1,221	469	232	27	94,635	49,643
Connecticut	1	94	8	5	13,006	7,912
Maine	648	84	16	7	46,431	23,663
Massachusetts	1	17	—	—	7,913	3,717
New Hampshire	209	122	6	1	14,454	7,631
Rhode Island	—	—	—	—	701	744
Vermont	361	152	203	14	12,129	5,976
Subdistrict 1B Total	980	309	408	142	158,099	68,312
Delaware	8	5	—	—	2,525	1,513
District of Columbia	—	—	—	—	40	2
Maryland	115	54	10	4	11,502	5,050
New Jersey	3	2	81	—	18,442	8,911
New York	626	198	205	98	74,635	31,296
Pennsylvania	228	51	112	40	50,956	21,540
Subdistrict 1C Total	745	472	154	101	101,031	43,821
Florida	7	13	—	1	1,455	920
Georgia	13	3	5	2	5,939	1,338
North Carolina	281	134	6	5	39,021	17,446
South Carolina	136	108	22	1	9,136	4,555
Virginia	270	192	118	89	39,018	16,564
West Virginia	38	23	3	3	6,462	2,998
PAD District 2 Total	5,898	3,480	520	655	65,523	32,874
Illinois	397	134	124	—	7,153	2,111
Indiana	755	242	19	27	7,746	4,370
Iowa	274	106	61	39	975	418
Kansas	109	56	11	33	399	658
Kentucky	469	325	47	48	5,574	3,360
Michigan	68	58	6	6	4,987	2,948
Minnesota	278	166	9	4	1,279	759
Missouri	111	45	—	1	2,874	1,619
Nebraska	31	20	37	20	384	198
North Dakota	21	18	—	—	370	122
Ohio	2,963	2,047	58	204	21,013	10,499
Oklahoma	106	63	19	189	1,161	727
South Dakota	18	4	—	1	89	59
Tennessee	23	30	16	11	9,993	4,086
Wisconsin	275	166	113	72	1,527	941
PAD District 3 Total	128	50	47	22	48,664	9,011
Alabama	5	2	1	2	2,446	971
Arkansas	6	4	—	1	680	435
Louisiana	43	4	1	—	35,564	589
Mississippi	1	12	—	—	1,999	1,096
New Mexico	12	2	21	4	217	93
Texas	62	27	23	14	7,759	5,827
PAD District 4 Total	123	67	19	21	1,219	814
Colorado	65	23	1	8	616	337
Idaho	15	24	—	—	131	100
Montana	2	5	—	12	45	174
Utah	27	15	17	—	337	177
Wyoming	14	—	—	—	90	26
PAD District 5 Total	436	322	140	83	23,530	14,261
Alaska	—	—	126	74	11,365	6,496
Arizona	—	1	2	2	167	51
California	350	157	8	3	9,013	4,993
Hawaii	—	—	—	—	2	1
Nevada	1	—	1	—	964	617
Oregon	32	48	1	1	941	1,059
Washington	53	116	1	2	1,077	1,042

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Kerosene data are based on data from the Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2007-2008 and "Petroleum Supply Annual," Volume 1, 2007-2008, (DOE/EIA-0340(07)/1 - (08)/1).

Table 7. Sales for Residential Use: Distillate Fuel Oil and Kerosene, 2008
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
U.S. Total	73,966	4,557,229	4,631,195	157,694
PAD District 1 Total	13,246	4,105,537	4,118,783	126,752
Subdistrict 1A Total	3,314	1,739,730	1,743,044	38,602
Connecticut	149	514,007	514,156	2,345
Maine	1,328	246,549	247,877	20,942
Massachusetts	1,241	618,876	620,117	2,788
New Hampshire	363	165,943	166,306	6,698
Rhode Island	66	115,090	115,156	517
Vermont	165	79,266	79,431	5,312
Subdistrict 1B Total	9,571	2,116,169	2,125,740	50,451
Delaware	—	23,461	23,461	1,230
District of Columbia	—	6,185	6,185	—
Maryland	—	123,466	123,466	4,348
New Jersey	4,122	272,322	276,444	2,059
New York	211	1,088,407	1,088,618	24,957
Pennsylvania	5,237	602,327	607,564	17,857
Subdistrict 1C Total	362	249,638	250,000	37,699
Florida	21	1,124	1,145	632
Georgia	—	1,212	1,212	787
North Carolina	82	66,005	66,087	15,812
South Carolina	—	6,032	6,032	3,587
Virginia	43	161,880	161,923	14,610
West Virginia	216	13,385	13,601	2,271
PAD District 2 Total	29,840	332,787	362,627	20,336
Illinois	659	6,526	7,185	1,097
Indiana	1,716	19,669	21,385	3,256
Iowa	767	8,635	9,402	226
Kansas	46	103	149	66
Kentucky	34	9,363	9,397	2,391
Michigan	2,635	44,050	46,685	2,298
Minnesota	11,114	47,997	59,111	304
Missouri	562	3,499	4,061	939
Nebraska	1,071	945	2,016	113
North Dakota	2,525	21,558	24,083	57
Ohio	1,949	81,868	83,817	5,699
Oklahoma	—	47	47	139
South Dakota	2,156	5,378	7,534	51
Tennessee	93	5,992	6,085	3,333
Wisconsin	4,512	77,156	81,668	367
PAD District 3 Total	20	2,423	2,443	1,064
Alabama	—	391	391	385
Arkansas	—	69	69	109
Louisiana	6	1,861	1,867	121
Mississippi	—	13	13	178
New Mexico	13	80	93	46
Texas	—	11	11	226
PAD District 4 Total	3,542	13,704	17,246	357
Colorado	25	308	333	148
Idaho	1,616	7,333	8,949	58
Montana	1,771	4,774	6,545	100
Utah	90	639	729	40
Wyoming	41	650	691	12
PAD District 5 Total	27,318	102,778	130,096	9,185
Alaska	23,177	27,886	51,063	3,830
Arizona	—	91	91	11
California	1,120	4,778	5,898	3,871
Hawaii	—	108	108	—
Nevada	177	6,679	6,856	457
Oregon	1,000	22,198	23,198	485
Washington	1,844	41,037	42,881	532

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2008. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2008, (DOE/EIA-0340(08)/1).

Table 8. Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2008
(Thousand Gallons)

Destination	Distillate Fuel Oil								Residual Fuel Oil	Kerosene
	No. 1 Distillate	No. 2 Distillate					No. 4 Fuel	Total Distillate		
		No. 2 Fuel Oil	Ultra Low Sulfur Diesel	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total				
U.S. Total	75,984	987,363	935,675	285,826	148,573	2,357,437	138,839	2,572,260	403,699	31,639
PAD District 1 Total	15,851	895,729	329,090	123,323	52,772	1,400,914	138,831	1,555,596	392,036	20,511
Subdistrict 1A Total	201	308,688	55,857	15,109	3,585	383,239	17,090	400,529	86,915	5,785
Connecticut	157	82,929	16,557	125	245	99,856	1,784	101,797	3,783	1,561
Maine	12	82,837	12,040	11,245	329	106,451	592	107,056	26,662	2,401
Massachusetts	6	72,310	18,744	2,005	662	93,721	9,274	103,001	34,044	901
New Hampshire	22	32,172	5,733	294	68	38,267	2,405	40,693	12,731	561
Rhode Island	—	19,981	1,149	905	201	22,236	1,815	24,052	5,811	72
Vermont	4	18,458	1,634	534	2,081	22,707	1,220	23,930	3,884	289
Subdistrict 1B Total	15,417	538,399	164,612	35,187	11,506	749,704	121,741	886,863	299,425	10,086
Delaware	8	3,383	2,866	1,569	17	7,835	280	8,121	462	277
District of Columbia	7	6,142	108	2,315	—	8,565	72	8,646	—	2
Maryland	18	32,154	8,128	7,843	927	49,052	—	49,070	404	492
New Jersey	35	55,008	32,919	754	2,033	90,714	2,311	93,059	16,764	2,359
New York	15,349	312,877	65,072	11,470	3,571	392,990	118,188	526,526	273,185	4,374
Pennsylvania	1	128,836	55,519	11,236	4,958	200,549	891	201,441	8,610	2,581
Subdistrict 1C Total	233	48,642	108,621	73,026	37,681	267,970	—	268,204	5,696	4,640
Florida	3	519	60,980	29,391	11,485	102,375	—	102,377	3,365	221
Georgia	—	752	10,996	6,388	7,981	26,117	—	26,118	—	313
North Carolina	53	13,082	10,047	19,337	4,026	46,492	—	46,545	1,619	1,461
South Carolina	—	483	14,676	5,297	5,110	25,566	—	25,566	20	803
Virginia	—	30,678	10,945	11,810	8,674	62,107	—	62,107	692	1,218
West Virginia	177	3,128	977	804	405	5,314	—	5,491	—	624
PAD District 2 Total	28,812	68,350	236,846	71,689	45,221	422,106	6	450,924	9,915	4,765
Illinois	1,856	8,303	20,764	9,700	7,179	45,946	—	47,802	82	284
Indiana	2,450	14,593	20,349	5,968	5,331	46,241	—	48,691	61	575
Iowa	1,856	2,155	8,346	459	407	11,367	—	13,223	—	46
Kansas	1,219	22	7,037	3,165	9	10,233	—	11,451	—	102
Kentucky	38	2,525	11,619	3,101	2,979	20,224	—	20,262	—	241
Michigan	6,784	3,812	25,909	4,208	871	34,800	—	41,584	1,935	332
Minnesota	5,610	13,503	11,690	3,711	185	29,089	—	34,700	5,215	259
Missouri	955	947	13,928	5,300	999	21,174	—	22,129	32	143
Nebraska	937	1,968	6,274	2,616	—	10,858	—	11,795	1,364	43
North Dakota	2,093	1,235	5,459	280	14	6,988	—	9,082	420	37
Ohio	1,688	5,607	35,977	16,970	19,033	77,587	—	79,276	289	1,828
Oklahoma	—	—	22,280	731	2,341	25,352	—	25,351	—	182
South Dakota	718	2,781	2,495	776	—	6,052	—	6,770	321	3
Tennessee	19	1,271	17,401	4,207	4,330	27,209	6	27,233	160	431
Wisconsin	2,589	9,628	27,318	10,496	1,543	48,985	—	51,574	35	259
PAD District 3 Total	451	2,855	118,733	52,028	29,883	203,499	1	203,952	272	1,913
Alabama	—	253	15,154	13,861	10,856	40,124	—	40,124	—	111
Arkansas	443	8	3,248	638	48	3,942	—	4,384	—	251
Louisiana	—	1,589	9,849	2,854	8,951	23,243	—	23,244	—	174
Mississippi	—	—	13,184	3,628	4,199	21,011	1	21,012	9	86
New Mexico	8	374	17,732	6,226	472	24,804	—	24,812	—	9
Texas	—	631	59,566	24,820	5,358	90,375	—	90,376	264	1,282
PAD District 4 Total	2,903	2,643	38,780	8,000	6,109	55,532	—	58,435	—	290
Colorado	334	—	17,615	959	1	18,575	—	18,909	—	109
Idaho	970	1,204	5,437	1,025	621	8,287	—	9,257	—	15
Montana	682	723	5,973	610	—	7,306	—	7,988	—	55
Utah	468	716	6,324	4,885	5,487	17,412	—	17,880	—	98
Wyoming	449	—	3,431	520	—	3,951	—	4,400	—	13
PAD District 5 Total	27,967	17,786	212,226	30,787	14,588	275,387	—	303,354	1,476	4,161
Alaska	24,475	10,833	4,213	2,787	5,831	23,664	—	48,139	21	2,591
Arizona	—	71	43,881	5,700	386	50,038	—	50,039	—	20
California	2,138	406	104,002	38	—	104,446	—	106,584	—	619
Hawaii	—	—	4,104	5,216	25	9,345	—	9,345	—	—
Nevada	159	1,865	8,573	1,560	301	12,299	—	12,458	—	156
Oregon	70	1,418	12,967	5,607	3,579	23,571	—	23,640	1,454	472
Washington	1,126	3,192	34,486	9,878	4,466	52,022	—	53,149	—	302

Dashed (—) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2008. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2008, (DOE/EIA-0340(08)/1).

Table 9. Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2008
(Thousand Gallons)

Destination	Distillate Fuel Oil							Residual Fuel Oil	Kerosene
	No. 1 Distillate	No. 2 Distillate				No. 4 Fuel	Total Distillate		
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total				
U.S. Total	33,978	276,566	1,673,081	359,271	2,308,918	23,269	2,366,164	1,033,904	23,185
PAD District 1 Total	233	207,626	422,568	122,389	752,583	20,535	773,351	542,163	12,994
Subdistrict 1A Total	98	38,002	11,691	703	50,396	3,707	54,201	109,340	4,760
Connecticut	11	6,904	1,493	—	8,397	1,609	10,017	4,988	3,906
Maine	—	14,882	1,032	89	16,003	282	16,285	70,931	230
Massachusetts	4	3,767	5,446	545	9,758	141	9,903	13,848	11
New Hampshire	74	5,553	343	1	5,897	473	6,444	12,637	249
Rhode Island	—	990	493	—	1,483	401	1,884	2,745	155
Vermont	9	5,906	2,884	67	8,858	801	9,668	4,190	209
Subdistrict 1B Total	106	138,734	80,956	40,863	260,553	7,507	268,167	121,678	7,324
Delaware	—	589	1,089	—	1,677	496	2,173	17,250	2
District of Columbia	—	23	57	—	80	—	80	—	—
Maryland	—	3,644	13,542	1,075	18,260	63	18,323	17,808	152
New Jersey	—	4,727	2,562	197	7,486	2,016	9,501	9,826	4,490
New York	106	29,357	13,580	2,698	45,635	3,258	48,999	43,983	1,669
Pennsylvania	—	100,395	50,127	36,894	187,415	1,675	189,090	32,810	1,011
Subdistrict 1C Total	29	30,891	329,921	80,822	441,634	9,321	450,983	311,145	909
Florida	—	119	32,693	18,786	51,598	—	51,598	53,136	53
Georgia	3	7,004	20,979	10,352	38,336	351	38,689	26,605	234
North Carolina	—	5,623	23,164	2,960	31,746	1,533	33,279	101,660	34
South Carolina	—	1,256	14,222	1,038	16,515	256	16,771	36,865	57
Virginia	—	13,786	73,941	11,480	99,207	7,182	106,389	71,317	455
West Virginia	26	3,103	164,921	36,207	204,232	—	204,257	21,562	78
PAD District 2 Total	15,202	59,358	382,021	115,469	556,848	1,598	573,648	229,036	3,639
Illinois	1,693	11,251	31,363	19,775	62,389	1,048	65,130	4,078	595
Indiana	2,714	10,258	43,633	7,075	60,966	74	63,753	10,198	270
Iowa	155	1,719	6,140	—	7,859	—	8,014	5,080	—
Kansas	157	383	7,407	1,740	9,530	6	9,693	36,605	402
Kentucky	46	290	133,788	41,318	175,396	41	175,484	1	356
Michigan	436	5,072	15,612	2,340	23,023	—	23,459	38,687	253
Minnesota	5,945	12,687	16,933	775	30,394	—	36,340	39,399	27
Missouri	303	4,674	18,879	1,876	25,430	316	26,049	1,157	490
Nebraska	137	376	3,033	—	3,409	—	3,546	1,247	1
North Dakota	1,261	318	18,615	1,382	20,314	—	21,575	1,093	9
Ohio	345	10,040	25,794	18,440	54,274	—	54,619	44,696	722
Oklahoma	423	50	6,483	580	7,114	—	7,537	14,468	153
South Dakota	113	147	3,609	—	3,756	—	3,868	1,277	1
Tennessee	—	57	11,449	9,811	21,317	112	21,429	5,497	282
Wisconsin	1,474	2,038	39,284	10,356	51,678	—	53,152	25,554	77
PAD District 3 Total	—	1,670	302,329	62,872	366,871	26	366,897	235,817	5,962
Alabama	—	422	69,511	31,998	101,931	13	101,944	36,711	471
Arkansas	—	287	57,481	548	58,316	—	58,316	1,583	70
Louisiana	—	—	18,156	9,759	27,915	13	27,929	56,199	290
Mississippi	—	—	11,613	7,356	18,969	—	18,969	4,356	820
New Mexico	—	1	38,439	900	39,341	—	39,341	8,172	33
Texas	—	959	107,129	12,310	120,399	—	120,399	128,797	4,278
PAD District 4 Total	6,359	1,163	227,594	8,434	237,190	6	243,555	17,197	79
Colorado	949	—	32,666	744	33,410	—	34,359	90	49
Idaho	729	891	13,504	1,748	16,143	—	16,872	—	4
Montana	1,706	211	29,387	14	29,611	—	31,317	—	2
Utah	382	—	36,902	5,752	42,654	6	43,042	15,736	23
Wyoming	2,593	61	115,134	177	115,372	—	117,965	1,371	1
PAD District 5 Total	12,183	6,748	338,569	50,108	395,425	1,104	408,712	9,690	510
Alaska	6,679	5,616	12,120	25,052	42,788	5	49,472	—	1
Arizona	—	—	143,873	235	144,108	—	144,108	—	18
California	5,330	213	43,510	—	43,723	—	49,053	1,580	344
Hawaii	—	—	2,453	262	2,716	—	2,716	—	1
Nevada	1	—	102,124	34	102,158	977	103,136	—	4
Oregon	145	643	17,101	7,908	25,652	28	25,825	7,869	53
Washington	29	277	17,388	16,616	34,280	93	34,402	242	90

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2008. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2008, (DOE/EIA-0340(08)/1).

Table 10. Sales for Farm Use: Distillate Fuel Oil and Kerosene; Sales for Electric Power and Oil Company Uses: Distillate Fuel Oil and Residual Fuel Oil, 2008
(Thousand Gallons)

Destination	Farm				Electric Power		Oil Company Use	
	Diesel	Other Distillate	Total Distillate	Kerosene	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	3,169,400	42,958	3,212,359	5,169	544,295	1,698,884	990,254	57,839
PAD District 1 Total	348,301	17,493	365,794	1,250	173,770	1,130,452	28,437	7,593
Subdistrict 1A Total	19,724	10,499	30,222	469	12,412	210,645	26	178
Connecticut	2,046	293	2,339	94	3,958	23,786	26	178
Maine	7,268	6,827	14,096	84	11	10,900	—	—
Massachusetts	1,211	181	1,392	17	5,367	157,098	—	—
New Hampshire	2,608	2,789	5,397	122	869	18,852	—	—
Rhode Island	94	—	94	—	1,874	8	—	—
Vermont	6,496	408	6,904	152	333	—	—	—
Subdistrict 1B Total	100,208	5,525	105,733	309	77,726	166,514	10,623	7,113
Delaware	4,694	1	4,695	5	2,077	—	3,203	—
District of Columbia	—	—	—	—	5,633	—	—	—
Maryland	16,605	69	16,675	54	14,313	12,052	128	669
New Jersey	2,354	136	2,490	2	8,607	19,939	396	1,420
New York	39,133	1,943	41,076	198	16,793	103,837	877	467
Pennsylvania	37,421	3,376	40,797	51	30,303	30,686	6,019	4,556
Subdistrict 1C Total	228,370	1,470	229,839	472	83,632	753,294	17,787	303
Florida	73,210	—	73,210	13	34,707	716,784	66	—
Georgia	66,892	686	67,578	3	13,865	—	216	—
North Carolina	36,178	467	36,645	134	8,263	—	62	—
South Carolina	17,278	—	17,278	108	8,520	—	332	110
Virginia	33,258	305	33,563	192	7,719	36,510	661	193
West Virginia	1,553	12	1,565	23	10,558	—	16,450	—
PAD District 2 Total	1,600,166	11,871	1,612,038	3,480	180,124	9,774	147,572	2,801
Illinois	175,035	174	175,209	134	20,558	—	52	—
Indiana	118,214	310	118,524	242	27,618	—	958	2,801
Iowa	160,796	1,866	162,662	106	7,500	—	—	—
Kansas	163,204	210	163,414	56	2,755	—	15,464	—
Kentucky	25,307	—	25,307	325	11,379	—	1,432	—
Michigan	47,265	109	47,374	58	27,811	4,477	15,552	—
Minnesota	109,749	713	110,462	166	7,168	4,132	661	—
Missouri	113,946	321	114,267	45	4,445	—	1	—
Nebraska	202,857	1,274	204,131	20	4,234	1,165	5	—
North Dakota	122,561	541	123,102	18	3,284	—	43,977	—
Ohio	119,665	1,935	121,600	2,047	34,991	—	4,827	—
Oklahoma	55,653	—	55,653	63	6,496	—	64,643	—
South Dakota	59,433	898	60,331	4	333	—	—	—
Tennessee	25,682	—	25,682	30	16,996	—	—	—
Wisconsin	100,800	3,520	104,320	166	4,555	—	—	—
PAD District 3 Total	594,610	4,140	598,750	50	34,820	93,852	554,669	17,544
Alabama	35,626	—	35,626	2	10,729	—	705	—
Arkansas	202,391	505	202,896	4	330	1,917	16,158	—
Louisiana	52,981	3,635	56,616	4	3,006	30,320	65,644	17,077
Mississippi	36,366	—	36,366	12	3,106	4,614	7,262	12
New Mexico	18,177	—	18,177	2	758	—	22,014	—
Texas	249,071	—	249,071	27	16,892	57,000	442,886	455
PAD District 4 Total	186,504	8,956	195,460	67	2,555	—	205,025	1,813
Colorado	37,665	88	37,752	23	1,020	—	88,490	—
Idaho	52,675	116	52,791	24	13	—	—	—
Montana	82,074	8,729	90,804	5	1,312	—	13,125	—
Utah	4,802	—	4,802	15	83	—	33,788	—
Wyoming	9,288	24	9,312	—	127	—	69,622	1,813
PAD District 5 Total	439,819	498	440,316	322	153,025	464,805	54,552	28,088
Alaska	65	29	94	—	42,882	—	41,306	14
Arizona	29,374	—	29,374	1	4,344	—	77	—
California	302,532	—	302,532	157	6,143	697	12,664	12,542
Hawaii	3,537	—	3,537	—	89,518	464,108	1	15,532
Nevada	2,722	16	2,738	—	1,070	—	273	—
Oregon	27,937	411	28,348	48	3,133	—	—	—
Washington	73,652	42	73,693	116	5,935	—	231	—

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2008. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2008, (DOE/EIA-0340(08)/1).

Table 11. Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 2008
(Thousand Gallons)

Destination	Railroad Use	Vessel Bunkering		On-Highway Diesel	Total Transportation Use	
	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	2,696,738	1,187,490	5,065,692	38,006,669	41,890,897	5,065,692
PAD District 1 Total	483,176	323,871	1,857,726	10,782,225	11,589,272	1,857,726
Subdistrict 1A Total	39,228	59,579	13,022	1,080,387	1,179,194	13,022
Connecticut	3,219	3,119	—	292,777	299,115	—
Maine	1,691	4,407	2,091	180,338	186,436	2,091
Massachusetts	32,029	43,976	10,838	375,527	451,532	10,838
New Hampshire	126	2,394	—	97,866	100,386	—
Rhode Island	72	5,682	93	^E 73,488	79,242	93
Vermont	2,091	—	—	60,391	62,482	—
Subdistrict 1B Total	175,297	62,011	1,327,839	3,957,029	4,194,337	1,327,839
Delaware	1,117	406	43,707	59,587	61,110	43,707
District of Columbia	—	—	—	15,892	15,892	—
Maryland	2,860	9,095	20,934	529,023	540,979	20,934
New Jersey	15,025	21,343	767,803	902,201	938,569	767,803
New York	42,829	9,364	369,650	1,120,424	1,172,617	369,650
Pennsylvania	113,466	21,803	125,744	1,329,902	1,465,171	125,744
Subdistrict 1C Total	268,651	202,281	516,865	5,744,809	6,215,741	516,865
Florida	63,435	143,399	151,832	1,478,963	1,685,797	151,832
Georgia	68,708	10,533	253,425	1,325,065	1,404,306	253,425
North Carolina	28,423	7,279	26,091	968,814	1,004,516	26,091
South Carolina	14,598	15,581	50,900	667,949	698,128	50,900
Virginia	78,431	14,085	34,617	1,017,285	1,109,801	34,617
West Virginia	15,056	11,403	—	286,733	313,192	—
PAD District 2 Total	1,072,535	178,434	46,330	12,581,260	13,832,229	46,330
Illinois	49,841	58,698	1,211	1,436,180	1,544,720	1,211
Indiana	50,638	23,950	13,016	1,302,530	1,377,119	13,016
Iowa	23,962	240	—	643,923	668,125	—
Kansas	82,208	—	—	480,947	563,155	—
Kentucky	87,902	34,356	—	821,452	943,710	—
Michigan	10,686	6,752	7,533	838,960	856,398	7,533
Minnesota	76,058	18,986	22,754	1,120,424	1,215,468	22,754
Missouri	11,470	869	—	985,489	997,828	—
Nebraska	12,227	—	—	406,238	418,465	—
North Dakota	58,499	—	—	193,615	252,114	—
Ohio	129,567	17,732	—	1,494,837	1,642,136	—
Oklahoma	391,779	10	—	906,265	1,298,054	—
South Dakota	5,957	—	—	198,713	204,670	—
Tennessee	34,092	16,187	1,585	1,002,320	1,052,599	1,585
Wisconsin	47,648	653	232	749,367	797,669	232
PAD District 3 Total	553,958	359,740	1,481,165	7,339,373	8,253,071	1,481,165
Alabama	41,895	58,091	40,252	736,864	836,850	40,252
Arkansas	15,085	48,853	—	627,835	691,773	—
Louisiana	22,228	130,583	521,574	690,761	843,573	521,574
Mississippi	22,495	44,595	23,251	623,455	690,545	23,251
New Mexico	1,827	—	—	473,827	475,654	—
Texas	450,428	77,618	896,088	4,186,631	4,714,677	896,088
PAD District 4 Total	133,496	24	—	1,892,277	2,025,797	—
Colorado	4,336	1	—	566,484	570,822	—
Idaho	14,443	22	—	243,942	258,407	—
Montana	8,213	—	—	250,145	258,358	—
Utah	24,084	—	—	446,206	470,290	—
Wyoming	82,420	—	—	385,500	467,920	—
PAD District 5 Total	453,572	325,422	1,680,470	5,411,534	6,190,528	1,680,470
Alaska	6,089	96,685	6,897	171,682	274,456	6,897
Arizona	6,794	1	—	792,938	799,732	—
California	260,977	81,169	1,424,562	2,838,723	3,180,870	1,424,562
Hawaii	6	57,365	34,962	56,394	113,765	34,962
Nevada	6,640	22	—	329,292	335,954	—
Oregon	94,836	13,001	53,125	534,203	642,039	53,125
Washington	78,230	77,180	160,924	688,302	843,711	160,924

^E Estimated data. Since 2008 data were not available, estimate is based on 2007 data.

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2008. • On-Highway Diesel data are Federal Highway Administration statistics of highway special fuels use.

Table 12. Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2008
(Thousand Gallons)

Destination	Military				Off-Highway Distillate Fuel Oil			All Other	
	Diesel	Other Distillate	Total Distillate	Residual Fuel Oil	Construction	Other	Total	Residual Fuel Oil	Kerosene
U.S. Total	244,026	16,094	260,120	9,262	1,973,778	298,471	2,272,249	3,672	1,050
PAD District 1 Total	51,260	10,798	62,058	8,651	678,738	94,154	772,892	153	270
Subdistrict 1A Total	14,777	2,048	16,825	729	99,674	9,213	108,887	30	27
Connecticut	962	—	962	729	18,263	937	19,200	30	5
Maine	6,776	990	7,766	—	10,579	3,404	13,983	—	7
Massachusetts	3,105	—	3,105	—	51,381	2,387	53,767	—	—
New Hampshire	3,178	42	3,220	—	13,022	1,338	14,361	—	1
Rhode Island	399	1,005	1,403	—	1,893	133	2,026	—	—
Vermont	357	11	368	—	4,536	1,014	5,550	—	14
Subdistrict 1B Total	12,634	7,123	19,757	7,012	182,301	20,208	202,509	27	142
Delaware	87	40	127	—	2,821	—	2,821	—	—
District of Columbia	289	—	289	—	1,222	—	1,222	—	—
Maryland	4,752	1,676	6,428	6,291	33,056	849	33,905	—	4
New Jersey	1,976	91	2,068	—	46,497	14,439	60,935	—	—
New York	3,612	317	3,929	—	44,415	1,269	45,684	27	98
Pennsylvania	1,917	4,999	6,916	721	54,290	3,651	57,941	—	40
Subdistrict 1C Total	23,849	1,627	25,476	911	396,763	64,733	461,496	96	101
Florida	4,796	—	4,796	25	107,528	6,510	114,038	—	1
Georgia	2,931	—	2,931	—	81,012	24,568	105,580	—	2
North Carolina	4,332	130	4,462	—	32,815	8,144	40,960	—	5
South Carolina	8,304	—	8,304	45	40,278	11,751	52,029	—	1
Virginia	3,454	1,373	4,827	841	117,787	11,394	129,181	96	89
West Virginia	32	124	156	—	17,342	2,366	19,708	—	3
PAD District 2 Total	8,426	555	8,980	—	573,372	70,514	643,887	3,519	655
Illinois	305	—	305	—	80,359	17,285	97,645	—	—
Indiana	220	—	220	—	41,599	4,638	46,237	—	27
Iowa	37	—	37	—	15,123	7,980	23,103	—	39
Kansas	603	4	606	—	14,968	691	15,659	—	33
Kentucky	775	—	775	—	29,374	1,532	30,906	—	48
Michigan	2,058	—	2,058	—	41,112	5,696	46,808	1,746	6
Minnesota	376	9	385	—	69,826	6,768	76,595	—	4
Missouri	1,912	536	2,449	—	57,819	3,198	61,017	—	1
Nebraska	117	—	117	—	9,756	1,180	10,936	—	20
North Dakota	417	—	417	—	10,000	377	10,378	1,773	—
Ohio	653	—	653	—	62,573	5,555	68,128	—	204
Oklahoma	303	—	303	—	39,506	1,314	40,820	—	189
South Dakota	131	6	136	—	8,210	705	8,916	—	1
Tennessee	94	—	94	—	49,404	8,639	58,043	—	11
Wisconsin	426	—	426	—	43,741	4,955	48,696	—	72
PAD District 3 Total	38,348	406	38,754	—	339,237	66,225	405,462	—	22
Alabama	792	406	1,199	—	39,189	25,866	65,055	—	2
Arkansas	273	—	273	—	11,790	10,206	21,996	—	1
Louisiana	912	—	912	—	66,898	7,122	74,020	—	—
Mississippi	102	—	102	—	31,298	15,000	46,298	—	—
New Mexico	540	—	540	—	13,416	1,207	14,623	—	4
Texas	35,729	—	35,729	—	176,646	6,824	183,470	—	14
PAD District 4 Total	1,104	417	1,520	—	103,214	16,861	120,075	—	21
Colorado	699	82	780	—	40,283	600	40,883	—	8
Idaho	21	—	21	—	10,239	7,173	17,411	—	—
Montana	362	335	697	—	15,276	5,717	20,993	—	12
Utah	21	—	21	—	26,445	2,516	28,961	—	—
Wyoming	—	—	—	—	10,971	855	11,826	—	—
PAD District 5 Total	144,889	3,919	148,807	611	279,217	50,717	329,934	—	83
Alaska	7,276	3,918	11,195	—	18,996	2,158	21,155	—	74
Arizona	1,240	—	1,240	—	62,449	1,284	63,733	—	2
California	8,863	—	8,863	611	106,930	3,159	110,089	—	3
Hawaii	1,912	—	1,912	—	8,356	—	8,356	—	—
Nevada	1,412	—	1,412	—	23,099	561	23,660	—	—
Oregon	385	—	385	—	14,699	16,769	31,468	—	1
Washington	123,801	—	123,801	—	44,689	26,785	71,474	—	2

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2008. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2008, (DOE/EIA-0340(08)/1).

Adjusted Sales of Fuel Oil and Kerosene in 2008

Tables 13 through 24 contain estimates of distillate fuel oil that have been adjusted at the PAD district level to equal published EIA volume estimates of petroleum products supplied in the U.S. marketplace. The kerosene and residual fuel oil sales estimates have been adjusted at the national level. The products supplied estimates can be found in the 2004 through 2008 issues of the *Petroleum Supply Annual, Volume 1 (PSA)*. In addition, electric power generation data and on-highway diesel data are used in lieu of adjusted survey results. See "Technical Note 3" in Appendix A for further explanation of data adjustments.

Total domestic adjusted sales of fuel oil and kerosene decreased 7.2 percent from 75.9 billion gallons in 2007 to 70.4 billion gallons in 2008. Adjusted sales of distillate, kerosene and residual fuel oils decreased 5.7, 55.6 and 13.7 percent respectively in 2008.

NOTE: The 2007 adjusted numbers have been revised since they were first published in the *Fuel Oil and Kerosene Sales 2007*. The revisions to the data were made to include new distillate and residual volumes for "Electric Power". When we originally published the *Fuel Oil and Kerosene Sales 2007*, the "Electric Power" information was still being collected and verified.

Table 13. Adjusted Sales of Distillate Fuel Oil by Energy Use in the United States: 2004-2008
(Thousand Gallons)

Energy Use	Distillate Fuel Oil				
	2004	2005	2006	2007	2008
U.S. Total	62,383,608	63,129,150	63,912,660	64,323,294	60,649,008
Residential	5,975,966	5,565,489	4,769,273	^R 5,020,555	4,648,017
Commercial	3,186,596	3,048,881	2,846,623	^R 2,763,566	2,697,976
Industrial	2,411,204	2,506,975	2,684,735	^R 2,553,933	2,563,869
Oil Company	553,427	504,483	740,347	^R 878,744	1,209,469
Farm	3,498,871	3,539,682	3,840,520	^R 3,504,473	3,699,651
Electric Power	807,251	805,505	499,011	^R 659,769	632,420
Railroad	3,302,209	3,679,575	4,123,195	^R 3,934,440	3,069,997
Vessel Bunkering	2,313,448	2,115,381	2,206,690	^R 2,158,930	1,339,546
On-Highway Diesel	37,125,239	38,053,129	39,118,301	39,801,744	38,006,669
Military	356,931	272,259	367,994	^R 372,405	268,592
Off-Highway	2,852,466	3,037,791	2,715,971	^R 2,674,734	2,512,803

R = Revised.

Notes: • See Technical Note 3 for further explanations on 2007 revised data and adjustments. • Distillate fuel oil data in the Adjusted Sales tables (13-24) are adjusted at the PAD District level. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2004-2008 and "Petroleum Supply Annual," Volume 1, 2004-2008, (DOE/EIA-0340(04)/1 - (08)/1). • See Technical Note 3 for further explanation of Electric Power. • On-Highway Diesel data are Federal Highway Administration statistics of highway special fuels use.

Table 14. Adjusted Sales of Residual Fuel Oil by Energy Use in the United States: 2004-2008
(Thousand Gallons)

Energy Use	Residual Fuel Oil				
	2004	2005	2006	2007	2008
U.S. Total	13,292,286	14,103,222	10,560,018	11,082,162	9,564,450
Commercial	814,706	769,742	499,679	^R 515,379	423,625
Industrial	1,604,346	1,785,080	1,514,013	^R 1,271,207	1,084,935
Oil Company	48,779	79,124	68,046	^R 47,079	60,694
Electric Power	5,904,875	5,898,314	2,458,851	^R 2,452,798	2,665,902
Vessel Bunkering	4,886,978	5,533,552	6,000,434	^R 6,773,950	5,315,722
Military	31,555	31,669	12,520	^R 18,971	9,719
All Other	1,046	5,741	6,476	^R 2,779	3,854

R = Revised.

Notes: • See "Technical Note 3" for further explanations on 2007 revised data and adjustments. • Residual fuel oil data in the Adjusted Sales tables (13-24) are adjusted at the national level. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2004-2008 and "Petroleum Supply Annual," Volume 1, 2004-2008, (DOE/EIA-0340(04)/1 - (08)/1). • See Technical Note 3 for further explanation of Electric Power.

Table 15. Adjusted Sales of Kerosene by Energy Use in the United States: 2004-2008
(Thousand Gallons)

Energy Use	Kerosene				
	2004	2005	2006	2007	2008
U.S. Total	988,680	1,070,160	822,990	492,702	218,736
Residential	627,842	620,767	491,508	325,320	157,694
Commercial	151,811	159,943	112,392	67,960	31,639
Industrial	192,588	267,450	202,590	88,372	23,185
Farm	14,757	19,875	15,064	9,531	5,169
All Other	1,683	2,124	1,435	1,520	1,050

Notes: • See Technical Note 3 for further explanation on adjustments. • Kerosene data in the Adjusted Sales tables (13-24) are adjusted at the national level. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2004-2008 and "Petroleum Supply Annual," Volume 1, 2004-2008, (DOE/EIA-0340(04)/1 - (08)/1).

Table 16. Adjusted Sales of Distillate Fuel Oil by Energy Use, 2007 and 2008

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	R2007	2008	R2007	2008	R2007	2008
U.S. Total	5,020,555	4,648,017	2,763,566	2,697,976	2,553,933	2,563,869
PAD District 1 Total	4,437,380	4,075,049	1,737,229	1,539,078	818,538	765,140
Subdistrict 1A Total	1,809,559	1,724,536	453,062	396,276	55,730	53,626
Connecticut	520,078	508,697	104,019	100,716	12,874	9,911
Maine	289,345	245,245	116,909	105,919	15,740	16,112
Massachusetts	633,567	613,533	129,773	101,907	13,170	9,798
New Hampshire	162,301	164,540	44,375	40,261	5,433	6,376
Rhode Island	118,204	113,933	27,428	23,796	2,050	1,864
Vermont	86,064	78,588	30,559	23,676	6,463	9,566
Subdistrict 1B Total	2,352,140	2,103,168	981,591	877,446	285,153	265,319
Delaware	25,455	23,212	9,542	8,035	1,956	2,150
District of Columbia	8,172	6,119	12,125	8,554	42	79
Maryland	133,682	122,155	47,411	48,549	14,016	18,129
New Jersey	300,285	273,508	133,591	92,071	13,088	9,400
New York	1,200,831	1,077,059	582,660	520,935	53,626	48,479
Pennsylvania	683,714	601,113	196,263	199,302	202,425	187,083
Subdistrict 1C Total	275,681	247,345	302,575	265,356	477,655	446,195
Florida	2,010	1,133	91,990	101,290	66,968	51,050
Georgia	1,128	1,199	33,302	25,841	42,352	38,278
North Carolina	78,673	65,385	59,899	46,051	56,439	32,926
South Carolina	6,842	5,968	27,619	25,294	21,089	16,593
Virginia	173,864	160,204	83,314	61,447	116,543	105,259
West Virginia	13,165	13,457	6,450	5,433	174,264	202,088
PAD District 2 Total	431,828	430,171	449,771	534,914	725,459	680,497
Illinois	7,020	8,524	33,739	56,706	77,485	77,261
Indiana	21,633	25,369	45,199	57,761	90,225	75,628
Iowa	10,395	11,154	11,200	15,686	12,949	9,507
Kansas	104	176	12,095	13,584	12,359	11,499
Kentucky	11,132	11,148	29,971	24,036	155,891	208,170
Michigan	62,223	55,381	51,197	49,330	35,266	27,829
Minnesota	70,062	70,121	32,996	41,163	41,636	43,109
Missouri	6,486	4,818	16,713	26,250	35,887	30,901
Nebraska	2,388	2,391	8,572	13,992	5,561	4,207
North Dakota	21,306	28,569	7,265	10,773	22,507	25,594
Ohio	114,081	99,429	80,101	94,042	63,637	64,792
Oklahoma	1,368	56	21,455	30,073	11,460	8,940
South Dakota	8,020	8,937	10,213	8,031	17,801	4,589
Tennessee	5,763	7,219	43,212	32,306	49,601	25,420
Wisconsin	89,846	96,880	45,842	61,181	93,193	63,052
PAD District 3 Total	1,177	3,381	322,511	282,311	487,916	507,861
Alabama	469	541	71,137	55,540	145,045	141,111
Arkansas	176	95	5,070	6,068	28,438	80,721
Louisiana	297	2,584	34,401	32,175	37,550	38,659
Mississippi	17	18	63,942	29,084	20,736	26,257
New Mexico	204	129	10,634	34,345	47,199	54,456
Texas	15	15	137,328	125,098	208,949	166,657
PAD District 4 Total	14,825	15,698	41,081	53,190	170,198	221,694
Colorado	220	303	12,954	17,212	25,722	31,275
Idaho	7,190	8,146	7,455	8,426	11,917	15,357
Montana	5,702	5,958	5,064	7,271	29,655	28,506
Utah	813	664	13,092	16,275	29,962	39,178
Wyoming	899	628	2,516	4,005	72,943	107,377
PAD District 5 Total	135,344	123,718	212,975	288,483	351,822	388,677
Alaska	58,627	48,560	39,446	45,779	52,245	47,047
Arizona	90	87	25,753	47,586	88,935	137,044
California	3,853	5,609	73,720	101,359	55,301	46,648
Hawaii	129	103	11,324	8,887	4,123	2,582
Nevada	5,910	6,520	12,287	11,847	111,223	98,080
Oregon	22,431	22,060	18,945	22,481	18,172	24,559
Washington	44,304	40,779	31,498	50,544	21,824	32,716

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by Energy Use, 2007 and 2008 (Continued)

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Power	
	R2007	2008	R2007	2008	R2007	2008
U.S. Total	878,744	1,209,469	3,504,473	3,699,651	659,769	632,420
PAD District 1 Total	30,130	28,135	357,989	361,910	272,043	201,904
Subdistrict 1A Total	321	26	24,033	29,901	12,636	14,421
Connecticut	321	26	2,093	2,314	5,941	4,599
Maine	—	—	10,358	13,946	642	13
Massachusetts	—	—	3,360	1,377	2,436	6,236
New Hampshire	—	—	3,012	5,340	1,961	1,009
Rhode Island	—	—	84	93	1,483	2,177
Vermont	—	—	5,127	6,831	173	387
Subdistrict 1B Total	14,362	10,510	98,751	104,610	130,668	90,311
Delaware	6,866	3,169	5,647	4,645	2,133	2,414
District of Columbia	—	—	—	—	5,985	6,546
Maryland	—	126	13,287	16,498	30,410	16,630
New Jersey	—	392	2,517	2,463	23,729	10,000
New York	10	868	40,980	40,640	6,207	19,512
Pennsylvania	7,486	5,955	36,320	40,364	62,204	35,209
Subdistrict 1C Total	15,447	17,599	235,205	227,399	128,739	97,172
Florida	51	66	66,732	72,432	58,186	40,326
Georgia	182	214	66,415	66,861	1,533	16,110
North Carolina	148	61	48,288	36,256	21,885	9,601
South Carolina	319	329	19,704	17,095	10,735	9,899
Virginia	707	654	32,502	33,207	24,851	8,969
West Virginia	14,040	16,275	1,563	1,548	11,549	12,268
PAD District 2 Total	133,188	175,059	1,771,073	1,912,300	191,234	209,287
Illinois	87	62	193,968	207,844	16,054	23,886
Indiana	3,371	1,137	150,554	140,601	28,776	32,090
Iowa	—	—	172,267	192,960	19,806	8,715
Kansas	22,138	18,344	164,151	193,851	3,741	3,201
Kentucky	3,449	1,699	26,738	30,021	4,989	13,221
Michigan	2,196	18,448	53,074	56,198	19,206	32,314
Minnesota	831	784	127,452	131,037	13,136	8,328
Missouri	—	1	152,373	135,551	4,664	5,165
Nebraska	2,027	6	220,972	242,153	1,851	4,920
North Dakota	28,663	52,169	111,538	146,031	3,181	3,816
Ohio	6,943	5,726	121,394	144,249	29,801	40,656
Oklahoma	62,861	76,683	63,140	66,019	7,196	7,548
South Dakota	105	—	66,408	71,568	5,296	387
Tennessee	9	—	39,776	30,466	21,646	19,747
Wisconsin	509	—	107,267	123,751	11,891	5,293
PAD District 3 Total	542,415	767,775	851,061	828,793	31,165	40,458
Alabama	436	975	44,535	49,313	1,982	12,466
Arkansas	15,471	22,366	289,441	280,849	3,236	383
Louisiana	74,205	90,865	70,257	78,368	1,358	3,492
Mississippi	5,213	10,052	68,351	50,338	1,702	3,609
New Mexico	31,593	30,472	47,605	25,160	1,881	881
Texas	415,497	613,045	330,872	344,765	21,005	19,627
PAD District 4 Total	119,498	186,622	152,190	177,916	5,706	2,969
Colorado	49,138	80,547	30,986	34,364	693	1,185
Idaho	—	—	38,540	48,052	27	15
Montana	11,987	11,947	72,348	82,653	1,579	1,524
Utah	17,759	30,755	4,255	4,371	1,008	97
Wyoming	40,615	63,373	6,060	8,476	2,398	148
PAD District 5 Total	53,513	51,878	372,160	418,731	159,622	177,801
Alaska	39,709	39,281	45	89	46,755	49,824
Arizona	117	74	18,697	27,934	4,765	5,047
California	12,171	12,043	261,386	287,701	4,110	7,138
Hawaii	819	1	3,999	3,364	100,964	104,011
Nevada	602	260	2,958	2,604	799	1,244
Oregon	—	—	26,819	26,958	1,424	3,641
Washington	95	219	58,256	70,081	805	6,896

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by Energy Use, 2007 and 2008 (Continued)

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	R2007	2008	R2007	2008	2007	2008
U.S. Total	3,934,440	3,069,997	2,158,930	1,339,546	39,801,744	38,006,669
PAD District 1 Total	561,543	478,046	450,807	320,432	11,739,455	10,782,225
Subdistrict 1A Total	67,004	38,812	41,600	58,946	1,123,563	1,080,387
Connecticut	4,304	3,185	6,435	3,086	303,570	292,777
Maine	122	1,673	8,025	4,361	181,010	180,338
Massachusetts	61,795	31,689	20,635	43,509	402,629	375,527
New Hampshire	115	125	2,649	2,369	97,695	97,866
Rhode Island	13	71	3,856	5,622	73,882	73,488
Vermont	656	2,068	—	—	64,777	60,391
Subdistrict 1B Total	203,542	173,436	142,775	61,353	4,232,345	3,957,029
Delaware	1,357	1,105	595	401	66,271	59,587
District of Columbia	—	—	10	—	10,710	15,892
Maryland	11,166	2,830	20,677	8,999	573,321	529,023
New Jersey	15,102	14,866	84,670	21,116	988,732	902,201
New York	61,147	42,374	11,934	9,264	1,118,505	1,120,424
Pennsylvania	114,769	112,261	24,889	21,572	1,474,806	1,329,902
Subdistrict 1C Total	290,997	265,798	266,432	200,133	6,383,547	5,744,809
Florida	71,962	62,761	140,493	141,877	1,670,536	1,478,963
Georgia	76,332	67,979	13,555	10,421	1,508,118	1,325,065
North Carolina	46,282	28,121	7,746	7,202	1,076,721	968,814
South Carolina	10,949	14,443	18,177	15,416	722,868	667,949
Virginia	70,224	77,598	42,525	13,936	1,111,050	1,017,285
West Virginia	15,247	14,896	43,936	11,282	294,254	286,733
PAD District 2 Total	1,717,322	1,272,308	425,297	211,669	12,627,117	12,581,260
Illinois	44,125	59,125	78,982	69,632	1,516,293	1,436,180
Indiana	72,399	60,070	32,784	28,411	1,356,498	1,302,530
Iowa	64,501	28,426	5,354	285	648,924	643,923
Kansas	101,550	97,520	—	—	489,575	480,947
Kentucky	187,037	104,275	100,663	40,756	875,135	821,452
Michigan	54,478	12,676	9,789	8,010	906,538	838,960
Minnesota	135,723	90,225	8,306	22,522	673,758	1,120,424
Missouri	30,212	13,606	37,572	1,031	1,087,199	985,489
Nebraska	14,005	14,505	—	—	434,093	406,238
North Dakota	137,309	69,395	—	—	177,467	193,615
Ohio	366,358	153,700	13,334	21,035	1,597,741	1,494,837
Oklahoma	383,697	464,753	11,840	11	840,366	906,265
South Dakota	9,429	7,066	—	—	202,607	198,713
Tennessee	84,357	40,442	126,167	19,202	1,061,941	1,002,320
Wisconsin	32,142	56,524	507	775	758,982	749,367
PAD District 3 Total	954,393	766,792	837,094	497,953	7,615,389	7,339,373
Alabama	81,618	57,991	49,547	80,410	848,402	736,864
Arkansas	27,596	20,881	573	67,622	673,079	627,835
Louisiana	59,812	30,769	479,631	180,754	703,016	690,761
Mississippi	63,723	31,138	127,611	61,728	625,746	623,455
New Mexico	8,390	2,528	—	—	531,013	473,827
Texas	713,255	623,485	179,733	107,439	4,234,133	4,186,631
PAD District 4 Total	184,543	121,514	19	22	1,999,274	1,892,277
Colorado	2,820	3,947	1	1	588,910	566,484
Idaho	14,805	13,146	18	20	275,706	243,942
Montana	75,681	7,476	—	—	263,696	250,145
Utah	31,422	21,922	—	—	480,993	446,206
Wyoming	59,815	75,023	—	—	389,969	385,500
PAD District 5 Total	516,639	431,337	445,713	309,470	5,820,509	5,411,534
Alaska	6,256	5,791	124,379	91,945	174,112	171,682
Arizona	11,637	6,461	1	—	865,536	792,938
California	309,249	248,184	101,932	77,190	3,091,491	2,838,723
Hawaii	3	6	126,454	54,553	52,692	56,394
Nevada	6,700	6,315	24	21	378,182	329,292
Oregon	80,280	90,187	19,982	12,363	560,598	534,203
Washington	102,514	74,395	72,941	73,396	697,898	688,302

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by Energy Use, 2007 and 2008 (Continued)

(Thousand Gallons)

Destination	Military		Off-Highway		Total	
	R2007	2008	R2007	2008	2007	2008
U.S. Total	372,405	268,592	2,674,734	2,512,803	64,323,294	60,649,008
PAD District 1 Total	63,492	61,399	806,116	764,685	21,274,722	19,378,002
Subdistrict 1A Total	12,196	16,646	89,705	107,731	3,689,409	3,521,308
Connecticut	1,606	952	20,463	18,996	981,703	945,259
Maine	5,174	7,684	11,793	13,834	639,116	589,125
Massachusetts	2,304	3,072	37,733	53,196	1,307,401	1,239,844
New Hampshire	1,345	3,186	11,117	14,208	330,004	335,281
Rhode Island	1,678	1,388	4,391	2,005	233,068	224,438
Vermont	90	364	4,208	5,491	198,117	187,362
Subdistrict 1B Total	27,454	19,547	219,233	200,359	8,688,014	7,863,087
Delaware	174	126	3,045	2,791	123,043	107,636
District of Columbia	578	286	1,922	1,209	39,545	38,684
Maryland	6,229	6,360	34,205	33,545	884,405	802,844
New Jersey	3,865	2,046	63,254	60,288	1,628,833	1,388,352
New York	7,905	3,888	49,982	45,199	3,133,786	2,928,643
Pennsylvania	8,702	6,843	66,824	57,325	2,878,402	2,596,928
Subdistrict 1C Total	23,842	25,205	497,178	456,596	8,897,299	7,993,607
Florida	4,298	4,745	120,042	112,827	2,293,268	2,067,470
Georgia	2,432	2,900	119,932	104,459	1,865,281	1,659,327
North Carolina	4,128	4,415	51,611	40,525	1,451,821	1,239,356
South Carolina	6,273	8,216	50,079	51,477	894,654	832,678
Virginia	6,159	4,775	134,044	127,809	1,795,784	1,611,143
West Virginia	551	154	21,471	19,498	596,492	583,633
PAD District 2 Total	9,257	10,653	755,588	763,819	19,237,134	18,781,938
Illinois	293	362	121,068	115,832	2,089,116	2,055,414
Indiana	14	261	36,805	54,849	1,838,257	1,778,707
Iowa	42	43	27,240	27,406	972,679	938,104
Kansas	905	719	23,728	18,575	830,345	838,417
Kentucky	1,218	919	29,431	36,663	1,425,653	1,292,360
Michigan	1,303	2,441	52,557	55,527	1,247,829	1,157,115
Minnesota	323	456	63,758	90,861	1,167,979	1,619,030
Missouri	2,643	2,905	75,084	72,383	1,448,833	1,278,100
Nebraska	53	139	48,795	12,973	738,317	701,524
North Dakota	403	495	12,915	12,311	522,556	542,767
Ohio	79	775	74,968	80,818	2,468,438	2,200,059
Oklahoma	498	359	49,125	48,423	1,453,005	1,609,130
South Dakota	1,022	162	11,310	10,577	332,209	310,029
Tennessee	199	111	72,528	68,855	1,505,198	1,246,088
Wisconsin	264	506	56,277	57,766	1,196,720	1,215,094
PAD District 3 Total	63,903	53,644	655,004	561,242	12,362,028	11,649,582
Alabama	3,576	1,659	85,560	90,050	1,332,305	1,226,921
Arkansas	387	378	65,516	30,447	1,108,982	1,137,645
Louisiana	15,435	1,262	103,816	102,458	1,579,776	1,252,147
Mississippi	1,057	141	80,801	64,086	1,058,898	899,905
New Mexico	1,143	747	4,411	20,241	684,074	642,786
Texas	42,305	49,457	314,902	253,960	6,597,994	6,490,178
PAD District 4 Total	835	1,384	104,916	109,298	2,793,084	2,782,584
Colorado	389	710	34,113	37,213	745,947	773,242
Idaho	174	19	16,415	15,848	372,246	352,973
Montana	265	635	15,687	19,109	481,663	415,224
Utah	8	19	24,746	26,362	604,059	585,850
Wyoming	—	—	13,954	10,765	589,170	655,295
PAD District 5 Total	234,919	141,513	353,110	313,760	8,656,326	8,056,902
Alaska	12,076	10,646	16,178	20,118	569,828	530,762
Arizona	1,205	1,179	65,115	60,609	1,081,852	1,078,959
California	11,680	8,428	131,897	104,692	4,056,789	3,737,716
Hawaii	73,283	1,819	9,176	7,946	382,966	239,666
Nevada	1,820	1,343	28,979	22,500	549,485	480,025
Oregon	1,975	366	22,344	29,925	772,971	766,744
Washington	132,879	117,732	79,422	67,970	1,242,436	1,223,030

^E Estimated data. Since 2008 data were not available, estimate is based on 2007 data.

Dashed (-) = No data reported. R = Revised.

Notes: • See "Technical Note 3" for further explanations on 2006 revised data. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2007-2008 and "Petroleum Supply Annual," Volume 1, 2007-2008, (DOE/EIA-0340(07)/1 - (08)/1). • See "Technical Note 3" in for further explanation of Electric Power. • On-Highway Diesel data are Federal Highway Administration statistics of highway special fuels use.

Table 17. Adjusted Sales of Residual Fuel Oil by Energy Use, 2007 and 2008

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Power	
	R2007	2008	R2007	2008	R2007	2008	R2007	2008
U.S. Total	515,379	423,625	1,271,207	1,084,935	47,079	60,694	2,452,798	2,665,902
PAD District 1 Total	505,905	411,386	827,515	568,923	22,794	7,968	1,933,952	1,773,915
Subdistrict 1A Total	94,390	91,205	208,394	114,737	755	186	288,700	330,546
Connecticut	8,168	3,970	16,687	5,234	160	186	59,359	37,326
Maine	17,532	27,978	118,560	74,432	570	—	15,271	17,105
Massachusetts	35,896	35,724	41,587	14,532	—	—	200,997	246,519
New Hampshire	18,989	13,360	17,515	13,261	25	—	13,072	29,583
Rhode Island	10,069	6,098	7,539	2,880	—	—	—	13
Vermont	3,736	4,075	6,506	4,397	—	—	—	—
Subdistrict 1B Total	407,036	314,204	169,048	127,684	22,039	7,464	662,963	261,295
Delaware	4,590	485	22,320	18,101	—	—	5,677	—
Maryland	782	424	27,173	18,687	934	702	44,040	18,911
New Jersey	10,023	17,591	20,511	10,311	1,509	1,491	79,000	31,289
New York	374,924	286,669	62,126	46,154	658	490	505,845	162,941
Pennsylvania	16,718	9,035	36,917	34,430	18,938	4,781	28,401	48,153
Subdistrict 1C Total	4,479	5,977	450,073	326,502	—	318	982,289	1,182,074
Florida	1,767	3,531	75,603	55,759	—	—	906,640	1,124,783
Georgia	—	—	57,713	27,919	—	—	—	—
North Carolina	1,310	1,699	134,797	106,678	—	—	—	—
South Carolina	618	20	68,916	38,684	—	116	—	—
Virginia	783	727	70,103	74,837	—	202	75,649	57,291
West Virginia	—	—	42,942	22,626	—	—	—	—
PAD District 2 Total	7,256	10,404	203,948	240,341	2,675	2,939	18,795	15,338
Illinois	—	86	3,636	4,280	—	—	—	—
Indiana	155	64	10,842	10,701	2,675	2,939	—	—
Iowa	—	—	1,902	5,331	—	—	—	—
Kansas	—	—	19,953	38,412	—	—	—	—
Kentucky	—	—	4,446	1	—	—	—	—
Michigan	—	2,031	41,129	40,596	—	—	15,389	7,025
Minnesota	3,778	5,472	33,893	41,344	—	—	3,406	6,484
Missouri	252	33	1,265	1,214	—	—	—	—
Nebraska	—	1,431	2,018	1,308	—	—	—	1,829
North Dakota	1,113	441	1,408	1,146	—	—	—	—
Ohio	39	304	38,123	46,902	—	—	—	—
Oklahoma	—	—	5,587	15,182	—	—	—	—
South Dakota	518	337	965	1,340	—	—	—	—
Tennessee	342	168	6,976	5,768	—	—	—	—
Wisconsin	1,061	37	31,804	26,816	—	—	—	—
PAD District 3 Total	593	286	209,163	247,457	10	18,410	49,821	147,273
Alabama	—	—	35,004	38,523	—	—	—	—
Arkansas	—	—	2,966	1,661	—	—	2,511	3,008
Louisiana	—	—	25,354	58,973	—	17,920	22,011	47,578
Mississippi	—	9	4,911	4,571	10	12	25,300	7,241
New Mexico	—	—	6,795	8,575	—	—	—	—
Texas	593	277	134,133	135,154	—	477	—	89,445
PAD District 4 Total	—	—	14,887	18,046	3,267	1,902	—	—
Colorado	—	—	—	95	—	—	—	—
Idaho	—	—	1,589	—	—	—	—	—
Utah	—	—	13,280	16,513	—	—	—	—
Wyoming	—	—	18	1,438	3,267	1,902	—	—
PAD District 5 Total	1,625	1,548	15,693	10,169	18,332	29,474	450,230	729,376
Alaska	—	22	—	—	—	14	—	—
Arizona	—	—	929	—	—	—	—	—
California	—	—	452	1,658	—	13,161	—	1,094
Hawaii	17	—	61	—	18,332	16,298	450,230	728,282
Nevada	207	—	—	—	—	—	—	—
Oregon	1,388	1,526	14,105	8,257	—	—	—	—
Washington	12	—	147	254	—	—	—	—

See footnotes at end of table.

Table 17. Adjusted Sales of Residual Fuel Oil by Energy Use, 2007 and 2008 (Continued)

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	R2007	2008	R2007	2008	R2007	2008	2007	2008
U.S. Total	6,773,950	5,315,722	18,971	9,719	2,779	3,854	11,082,162	9,564,450
PAD District 1 Total	2,310,583	1,949,419	16,721	9,078	62	161	5,617,531	4,720,850
Subdistrict 1A Total	19,302	13,665	2,013	764	43	31	613,597	551,134
Connecticut	—	—	642	764	43	31	85,059	47,512
Maine	8,523	2,194	—	—	—	—	160,456	121,710
Massachusetts	10,711	11,373	1,371	—	—	—	290,561	308,149
New Hampshire	—	—	—	—	—	—	49,602	56,203
Rhode Island	68	97	—	—	—	—	17,677	9,088
Vermont	—	—	—	—	—	—	10,243	8,472
Subdistrict 1B Total	1,335,521	1,393,378	8,049	7,358	18	29	2,604,675	2,111,411
Delaware	53,434	45,865	—	—	—	—	86,021	64,451
Maryland	24,283	21,968	7,107	6,601	—	—	104,320	67,294
New Jersey	808,211	805,700	—	—	—	—	919,255	866,382
New York	303,583	387,895	—	—	18	29	1,247,153	884,179
Pennsylvania	146,010	131,950	942	757	—	—	247,926	229,106
Subdistrict 1C Total	955,759	542,376	6,660	956	—	101	2,399,260	2,058,304
Florida	569,900	159,326	—	26	—	—	1,553,910	1,343,425
Georgia	242,947	265,934	—	—	—	—	300,660	293,853
North Carolina	24,696	27,379	649	—	—	—	161,451	135,755
South Carolina	67,182	53,412	—	47	—	—	136,716	92,279
Virginia	51,035	36,326	6,012	883	—	101	203,582	170,367
West Virginia	—	—	—	—	—	—	42,942	22,626
PAD District 2 Total	45,531	48,617	—	—	2,717	3,693	280,923	321,332
Illinois	1,591	1,270	—	—	—	—	5,227	5,636
Indiana	12,334	13,659	—	—	—	—	26,006	27,362
Iowa	—	—	—	—	—	—	1,902	5,331
Kansas	—	—	—	—	—	—	19,953	38,412
Kentucky	—	—	—	—	—	—	4,446	1
Michigan	12,358	7,904	—	—	442	1,832	69,318	59,388
Minnesota	17,262	23,877	—	—	—	—	58,338	77,178
Missouri	117	—	—	—	—	—	1,634	1,247
Nebraska	—	—	—	—	—	—	2,018	4,568
North Dakota	—	—	—	—	1,514	1,861	4,034	3,448
Ohio	142	—	—	—	762	—	39,066	47,206
Oklahoma	—	—	—	—	—	—	5,587	15,182
South Dakota	—	—	—	—	—	—	1,483	1,677
Tennessee	204	1,663	—	—	—	—	7,522	7,599
Wisconsin	1,524	243	—	—	—	—	34,388	27,096
PAD District 3 Total	1,989,660	1,554,272	446	—	—	—	2,249,693	1,967,697
Alabama	57,870	42,239	—	—	—	—	92,873	80,761
Arkansas	—	—	—	—	—	—	5,477	4,669
Louisiana	635,317	547,318	—	—	—	—	682,682	671,789
Mississippi	29,403	24,399	—	—	—	—	59,624	36,231
New Mexico	—	—	—	—	—	—	6,795	8,575
Texas	1,267,070	940,317	446	—	—	—	1,402,243	1,165,670
PAD District 4 Total	—	—	—	—	—	—	18,154	19,948
Colorado	—	—	—	—	—	—	—	95
Idaho	—	—	—	—	—	—	1,589	—
Utah	—	—	—	—	—	—	13,280	16,513
Wyoming	—	—	—	—	—	—	3,285	3,341
PAD District 5 Total	2,428,176	1,763,414	1,804	641	—	—	2,915,860	2,534,623
Alaska	11,300	7,238	—	—	—	—	11,300	7,274
Arizona	—	—	—	—	—	—	929	—
California	1,702,451	1,494,875	1,799	641	—	—	1,704,701	1,511,429
Hawaii	191,888	36,688	—	—	—	—	660,529	781,268
Nevada	—	—	5	—	—	—	212	—
Oregon	93,635	55,748	—	—	—	—	109,128	65,531
Washington	428,902	168,866	—	—	—	—	429,061	169,120

Dashed (-) = No data reported. R = Revised.

Notes: • See Technical Note 3 for further explanations on 2007 revised data. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2007-2008 and "Petroleum Supply Annual," Volume 1, 2007-2008, (DOE/EIA-0340(06)/1 - (07)/1). • See Technical Note 3 for further explanation of Electric Power.

Table 18. Adjusted Sales of Kerosene by Energy Use, 2007 and 2008

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	2007	2008	2007	2008	2007	2008
U.S. Total	325,320	157,694	67,960	31,639	88,372	23,185
PAD District 1 Total	267,992	126,752	47,683	20,511	34,350	12,994
Subdistrict 1A Total	75,986	38,602	10,169	5,785	7,027	4,760
Connecticut	5,428	2,345	1,425	1,561	6,143	3,906
Maine	40,203	20,942	4,903	2,401	661	230
Massachusetts	6,783	2,788	1,046	901	84	11
New Hampshire	12,493	6,698	1,644	561	103	249
Rhode Island	675	517	24	72	1	155
Vermont	10,403	5,312	1,127	289	35	209
Subdistrict 1B Total	109,558	50,451	24,834	10,086	22,319	7,324
Delaware	2,040	1,230	471	277	5	2
District of Columbia	—	—	40	2	—	—
Maryland	9,449	4,348	1,721	492	207	152
New Jersey	3,027	2,059	4,516	2,359	10,815	4,490
New York	55,341	24,957	10,268	4,374	8,195	1,669
Pennsylvania	39,702	17,857	7,818	2,581	3,096	1,011
Subdistrict 1C Total	82,448	37,699	12,680	4,640	5,004	909
Florida	838	632	523	221	87	53
Georgia	1,641	787	551	313	3,729	234
North Carolina	35,666	15,812	2,990	1,461	78	34
South Carolina	8,055	3,587	774	803	148	57
Virginia	31,072	14,610	6,789	1,218	768	455
West Virginia	5,175	2,271	1,053	624	193	78
PAD District 2 Total	39,150	20,336	9,905	4,765	10,051	3,639
Illinois	2,186	1,097	1,494	284	2,952	595
Indiana	5,425	3,256	1,172	575	375	270
Iowa	418	226	129	46	94	—
Kansas	93	66	168	102	19	402
Kentucky	4,184	2,391	434	241	440	356
Michigan	4,008	2,298	330	332	576	253
Minnesota	470	304	436	259	85	27
Missouri	2,273	939	381	143	109	490
Nebraska	256	113	55	43	5	1
North Dakota	99	57	52	37	197	9
Ohio	10,208	5,699	3,514	1,828	4,269	722
Oklahoma	338	139	342	182	356	153
South Dakota	64	51	7	3	—	1
Tennessee	8,561	3,333	1,017	431	376	282
Wisconsin	568	367	374	259	198	77
PAD District 3 Total	2,905	1,064	2,917	1,913	42,668	5,962
Alabama	1,340	385	200	111	901	471
Arkansas	262	109	371	251	41	70
Louisiana	255	121	284	174	34,981	290
Mississippi	539	178	187	86	1,272	820
New Mexico	111	46	68	9	5	33
Texas	398	226	1,808	1,282	5,468	4,278
PAD District 4 Total	518	357	388	290	171	79
Colorado	268	148	193	109	89	49
Idaho	88	58	22	15	6	4
Montana	35	100	4	55	3	2
Utah	101	40	150	98	42	23
Wyoming	26	12	19	13	31	1
PAD District 5 Total	14,755	9,185	7,067	4,161	1,133	510
Alaska	6,773	3,830	4,465	2,591	1	1
Arizona	16	11	97	20	52	18
California	6,399	3,871	1,297	619	959	344
Hawaii	—	—	—	—	2	1
Nevada	709	457	249	156	5	4
Oregon	328	485	535	472	47	53
Washington	531	532	425	302	67	90

See footnotes at end of table.

Table 18. Adjusted Sales of Kerosene by Energy Use, 2007 and 2008 (Continued)

(Thousand Gallons)

Destination	Farm		All Other		Total	
	2007	2008	2007	2008	2007	2008
U.S. Total	9,531	5,169	1,520	1,050	492,702	218,736
PAD District 1 Total	2,946	1,250	795	270	353,765	161,776
Subdistrict 1A Total	1,221	469	232	27	94,635	49,643
Connecticut	1	94	8	5	13,006	7,912
Maine	648	84	16	7	46,431	23,663
Massachusetts	1	17	—	—	7,913	3,717
New Hampshire	209	122	6	1	14,454	7,631
Rhode Island	—	—	—	—	701	744
Vermont	361	152	203	14	12,129	5,976
Subdistrict 1B Total	980	309	408	142	158,099	68,312
Delaware	8	5	—	—	2,525	1,513
District of Columbia	—	—	—	—	40	2
Maryland	115	54	10	4	11,502	5,050
New Jersey	3	2	81	—	18,442	8,911
New York	626	198	205	98	74,635	31,296
Pennsylvania	228	51	112	40	50,956	21,540
Subdistrict 1C Total	745	472	154	101	101,031	43,821
Florida	7	13	—	1	1,455	920
Georgia	13	3	5	2	5,939	1,338
North Carolina	281	134	6	5	39,021	17,446
South Carolina	136	108	22	1	9,136	4,555
Virginia	270	192	118	89	39,018	16,564
West Virginia	38	23	3	3	6,462	2,998
PAD District 2 Total	5,898	3,480	520	655	65,523	32,874
Illinois	397	134	124	—	7,153	2,111
Indiana	755	242	19	27	7,746	4,370
Iowa	274	106	61	39	975	418
Kansas	109	56	11	33	399	658
Kentucky	469	325	47	48	5,574	3,360
Michigan	68	58	6	6	4,987	2,948
Minnesota	278	166	9	4	1,279	759
Missouri	111	45	—	1	2,874	1,619
Nebraska	31	20	37	20	384	198
North Dakota	21	18	—	—	370	122
Ohio	2,963	2,047	58	204	21,013	10,499
Oklahoma	106	63	19	189	1,161	727
South Dakota	18	4	—	1	89	59
Tennessee	23	30	16	11	9,993	4,086
Wisconsin	275	166	113	72	1,527	941
PAD District 3 Total	128	50	47	22	48,664	9,011
Alabama	5	2	1	2	2,446	971
Arkansas	6	4	—	1	680	435
Louisiana	43	4	1	—	35,564	589
Mississippi	1	12	—	—	1,999	1,096
New Mexico	12	2	21	4	217	93
Texas	62	27	23	14	7,759	5,827
PAD District 4 Total	123	67	19	21	1,219	814
Colorado	65	23	1	8	616	337
Idaho	15	24	—	—	131	100
Montana	2	5	—	12	45	174
Utah	27	15	17	—	337	177
Wyoming	14	—	—	—	90	26
PAD District 5 Total	436	322	140	83	23,530	14,261
Alaska	—	—	126	74	11,365	6,496
Arizona	—	1	2	2	167	51
California	350	157	8	3	9,013	4,993
Hawaii	—	—	—	—	2	1
Nevada	1	—	1	—	964	617
Oregon	32	48	1	1	941	1,059
Washington	53	116	1	2	1,077	1,042

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2007-2008 and "Petroleum Supply Annual," Volume 1, 2007-2008, (DOE/EIA-0340(07)/1 - (08)/1).

Table 19. Adjusted Sales for Residential Use: Distillate Fuel Oil and Kerosene, 2008
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
U.S. Total	77,734	4,570,283	4,648,017	157,694
PAD District 1 Total	13,106	4,061,943	4,075,049	126,752
Subdistrict 1A Total	3,279	1,721,257	1,724,536	38,602
Connecticut	148	508,549	508,697	2,345
Maine	1,314	243,931	245,245	20,942
Massachusetts	1,228	612,304	613,532	2,788
New Hampshire	360	164,181	164,541	6,698
Rhode Island	66	113,868	113,934	517
Vermont	164	78,424	78,588	5,312
Subdistrict 1B Total	9,469	2,093,698	2,103,167	50,451
Delaware	—	23,212	23,212	1,230
District of Columbia	—	6,119	6,119	—
Maryland	—	122,155	122,155	4,348
New Jersey	4,078	269,430	273,508	2,059
New York	209	1,076,850	1,077,059	24,957
Pennsylvania	5,182	595,932	601,114	17,857
Subdistrict 1C Total	358	246,988	247,346	37,699
Florida	20	1,112	1,132	632
Georgia	—	1,199	1,199	787
North Carolina	81	65,304	65,385	15,812
South Carolina	—	5,968	5,968	3,587
Virginia	43	160,161	160,204	14,610
West Virginia	213	13,243	13,456	2,271
PAD District 2 Total	35,398	394,773	430,171	20,336
Illinois	782	7,742	8,524	1,097
Indiana	2,036	23,333	25,369	3,256
Iowa	910	10,243	11,153	226
Kansas	54	122	176	66
Kentucky	41	11,107	11,148	2,391
Michigan	3,126	52,255	55,381	2,298
Minnesota	13,184	56,937	70,121	304
Missouri	667	4,151	4,818	939
Nebraska	1,270	1,121	2,391	113
North Dakota	2,996	25,573	28,569	57
Ohio	2,312	97,117	99,429	5,699
Oklahoma	—	56	56	139
South Dakota	2,558	6,379	8,937	51
Tennessee	110	7,109	7,219	3,333
Wisconsin	5,352	91,528	96,880	367
PAD District 3 Total	27	3,354	3,381	1,064
Alabama	—	541	541	385
Arkansas	—	95	95	109
Louisiana	9	2,575	2,584	121
Mississippi	—	18	18	178
New Mexico	19	110	129	46
Texas	—	15	15	226
PAD District 4 Total	3,224	12,474	15,698	357
Colorado	23	280	303	148
Idaho	1,471	6,675	8,146	58
Montana	1,612	4,346	5,958	100
Utah	82	582	664	40
Wyoming	37	592	629	12
PAD District 5 Total	25,978	97,739	123,717	9,185
Alaska	22,041	26,519	48,560	3,830
Arizona	—	87	87	11
California	1,065	4,544	5,609	3,871
Hawaii	—	103	103	—
Nevada	168	6,352	6,520	457
Oregon	951	21,110	22,061	485
Washington	1,753	39,025	40,778	532

Dashed (—) = No data reported.

Notes: • See Technical Note 3 for further explanations. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2008 and "Petroleum Supply Annual," Volume 1, 2008, (DOE/EIA-0340(08)/1).

Table 20. Adjusted Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2008
(Thousand Gallons)

Destination	Distillate Fuel Oil								Residual Fuel Oil	Kerosene
	No. 1 Distillate	No. 2 Distillate					No. 4 Fuel	Total Distillate		
		No. 2 Fuel Oil	Ultra Low Sulfur Diesel	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total				
U.S. Total	79,724	990,571	1,008,030	315,632	166,653	2,480,886	137,367	2,697,976	423,625	31,639
PAD District 1 Total	15,682	886,218	325,596	122,013	52,212	1,386,039	137,357	1,539,078	411,386	20,511
Subdistrict 1A Total	199	305,410	55,264	14,948	3,547	379,169	16,908	396,276	91,205	5,785
Connecticut	156	82,049	16,381	124	242	98,796	1,765	100,716	3,970	1,561
Maine	12	81,958	11,913	11,126	326	105,323	585	105,919	27,978	2,401
Massachusetts	5	71,542	18,545	1,984	655	92,726	9,176	101,907	35,724	901
New Hampshire	22	31,830	5,672	290	67	37,859	2,379	40,261	13,360	561
Rhode Island	—	19,769	1,137	895	199	22,000	1,796	23,796	6,098	72
Vermont	4	18,262	1,616	529	2,059	22,466	1,207	23,676	4,075	289
Subdistrict 1B Total	15,254	532,682	162,864	34,814	11,384	741,744	120,449	877,446	314,204	10,086
Delaware	8	3,347	2,835	1,552	17	7,751	277	8,035	485	277
District of Columbia	7	6,077	107	2,291	—	8,475	72	8,554	—	2
Maryland	17	31,813	8,041	7,760	917	48,531	—	48,549	424	492
New Jersey	34	54,423	32,570	746	2,012	89,751	2,286	92,071	17,591	2,359
New York	15,186	309,554	64,381	11,348	3,533	388,816	116,933	520,935	286,669	4,374
Pennsylvania	1	127,468	54,930	11,116	4,905	198,419	881	199,302	9,035	2,581
Subdistrict 1C Total	230	48,126	107,468	72,251	37,281	265,126	—	265,356	5,977	4,640
Florida	2	513	60,332	29,079	11,363	101,287	—	101,290	3,531	221
Georgia	—	744	10,879	6,321	7,896	25,840	—	25,841	—	313
North Carolina	52	12,943	9,941	19,131	3,983	45,998	—	46,051	1,699	1,461
South Carolina	—	478	14,520	5,241	5,055	25,294	—	25,294	20	803
Virginia	—	30,352	10,829	11,684	8,582	61,447	—	61,447	727	1,218
West Virginia	175	3,095	967	795	401	5,258	—	5,433	—	624
PAD District 2 Total	34,178	81,081	280,962	85,042	53,643	500,728	7	534,914	10,404	4,765
Illinois	2,202	9,849	24,631	11,507	8,517	54,504	—	56,706	86	284
Indiana	2,907	17,311	24,139	7,080	6,323	54,853	—	57,761	64	575
Iowa	2,202	2,556	9,901	545	482	13,484	—	15,686	—	46
Kansas	1,446	26	8,347	3,755	11	12,139	—	13,584	—	102
Kentucky	45	2,995	13,784	3,679	3,534	23,992	—	24,036	—	241
Michigan	8,047	4,522	30,735	4,992	1,033	41,282	—	49,330	2,031	332
Minnesota	6,655	16,018	13,868	4,402	219	34,507	—	41,163	5,472	259
Missouri	1,133	1,123	16,523	6,287	1,185	25,118	—	26,250	33	143
Nebraska	1,112	2,335	7,443	3,103	—	12,881	—	13,992	1,431	43
North Dakota	2,483	1,465	6,476	332	17	8,290	—	10,773	441	37
Ohio	2,002	6,652	42,678	20,131	22,578	92,039	—	94,042	304	1,828
Oklahoma	—	—	26,430	867	2,777	30,074	—	30,073	—	182
South Dakota	852	3,299	2,959	920	—	7,178	—	8,031	337	3
Tennessee	22	1,507	20,642	4,991	5,137	32,277	7	32,306	168	431
Wisconsin	3,071	11,422	32,406	12,451	1,831	58,110	—	61,181	37	259
PAD District 3 Total	624	3,953	164,351	72,017	41,364	281,685	2	282,311	286	1,913
Alabama	—	350	20,977	19,187	15,026	55,540	—	55,540	—	111
Arkansas	613	11	4,496	883	66	5,456	—	6,068	—	251
Louisiana	—	2,200	13,633	3,951	12,390	32,174	—	32,175	—	174
Mississippi	—	—	18,249	5,022	5,812	29,083	2	29,084	9	86
New Mexico	11	517	24,545	8,619	653	34,334	—	34,345	—	9
Texas	—	874	82,451	34,356	7,417	125,098	—	125,098	277	1,282
PAD District 4 Total	2,642	2,406	35,299	7,282	5,561	50,548	—	53,190	—	290
Colorado	304	—	16,034	873	1	16,908	—	17,212	—	109
Idaho	883	1,096	4,949	933	565	7,543	—	8,426	—	15
Montana	621	658	5,437	556	—	6,651	—	7,271	—	55
Utah	426	652	5,757	4,447	4,994	15,850	—	16,275	—	98
Wyoming	409	—	3,123	473	—	3,596	—	4,005	—	13
PAD District 5 Total	26,596	16,914	201,822	29,278	13,873	261,887	—	288,483	1,548	4,161
Alaska	23,275	10,302	4,006	2,650	5,545	22,503	—	45,779	22	2,591
Arizona	—	68	41,730	5,421	367	47,586	—	47,586	—	20
California	2,033	387	98,904	36	—	99,327	—	101,359	—	619
Hawaii	—	—	3,902	4,961	24	8,887	—	8,887	—	—
Nevada	151	1,773	8,153	1,483	286	11,695	—	11,847	—	156
Oregon	66	1,348	12,331	5,332	3,403	22,414	—	22,481	1,526	472
Washington	1,071	3,036	32,795	9,394	4,247	49,472	—	50,544	—	302

Dashed (—) = No data reported.

Notes: • See Technical Note 3 for further explanations. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2008 and "Petroleum Supply Annual," Volume 1, 2008, (DOE/EIA-0340(08)/1).

Table 21. Adjusted Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2008
(Thousand Gallons)

Destination	Distillate Fuel Oil							Residual Fuel Oil	Kerosene
	No. 1 Distillate	No. 2 Distillate				No. 4 Fuel	Total Distillate		
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total				
U.S. Total	35,639	285,624	1,818,881	400,422	2,504,926	23,304	2,563,869	1,084,935	23,185
PAD District 1 Total	231	205,422	418,081	121,089	744,592	20,317	765,140	568,923	12,994
Subdistrict 1A Total	97	37,598	11,567	696	49,861	3,667	53,626	114,737	4,760
Connecticut	11	6,831	1,477	—	8,308	1,592	9,911	5,234	3,906
Maine	—	14,724	1,021	88	15,833	279	16,112	74,432	230
Massachusetts	4	3,727	5,388	540	9,654	139	9,798	14,532	11
New Hampshire	73	5,494	340	1	5,834	468	6,376	13,261	249
Rhode Island	—	979	488	—	1,467	397	1,864	2,880	155
Vermont	9	5,843	2,854	67	8,764	793	9,566	4,397	209
Subdistrict 1B Total	105	137,261	80,096	40,430	257,787	7,428	265,319	127,684	7,324
Delaware	—	582	1,077	—	1,659	491	2,150	18,101	2
District of Columbia	—	22	56	—	79	—	79	—	—
Maryland	—	3,605	13,398	1,063	18,066	62	18,129	18,687	152
New Jersey	—	4,677	2,535	195	7,406	1,994	9,400	10,311	4,490
New York	105	29,045	13,436	2,670	45,151	3,223	48,479	46,154	1,669
Pennsylvania	—	99,329	49,594	36,502	185,425	1,657	187,083	34,430	1,011
Subdistrict 1C Total	28	30,563	326,417	79,964	436,945	9,222	446,195	326,502	909
Florida	—	118	32,346	18,586	51,050	—	51,050	55,759	53
Georgia	3	6,930	20,757	10,242	37,928	347	38,278	27,919	234
North Carolina	—	5,563	22,918	2,929	31,409	1,516	32,926	106,678	34
South Carolina	—	1,242	14,071	1,027	16,340	253	16,593	38,684	57
Virginia	—	13,640	73,156	11,358	98,153	7,106	105,259	74,837	455
West Virginia	25	3,070	163,170	35,823	202,063	—	202,088	22,626	78
PAD District 2 Total	18,034	70,415	453,177	136,976	660,568	1,896	680,497	240,341	3,639
Illinois	2,008	13,347	37,205	23,458	74,009	1,244	77,261	4,280	595
Indiana	3,219	12,168	51,760	8,393	72,321	88	75,628	10,701	270
Iowa	184	2,039	7,284	—	9,322	—	9,507	5,331	—
Kansas	186	454	8,787	2,064	11,305	7	11,499	38,412	402
Kentucky	55	344	158,707	49,014	208,066	49	208,170	1	356
Michigan	517	6,016	18,519	2,776	27,311	—	27,829	40,596	253
Minnesota	7,053	15,050	20,086	919	36,056	—	43,109	41,344	27
Missouri	360	5,545	22,396	2,226	30,167	374	30,901	1,214	490
Nebraska	163	446	3,598	—	4,044	—	4,207	1,308	1
North Dakota	1,496	377	22,082	1,639	24,098	—	25,594	1,146	9
Ohio	409	11,910	30,598	21,875	64,383	—	64,792	46,902	722
Oklahoma	502	59	7,691	688	8,439	—	8,940	15,182	153
South Dakota	134	174	4,281	—	4,455	—	4,589	1,340	1
Tennessee	—	68	13,581	11,638	25,287	133	25,420	5,768	282
Wisconsin	1,748	2,417	46,601	12,285	61,304	—	63,052	26,816	77
PAD District 3 Total	—	2,311	418,486	87,028	507,825	36	507,861	247,457	5,962
Alabama	—	585	96,217	44,291	141,093	17	141,111	38,523	471
Arkansas	—	397	79,566	759	80,721	—	80,721	1,661	70
Louisiana	—	—	25,131	13,509	38,641	18	38,659	58,973	290
Mississippi	—	—	16,075	10,182	26,257	—	26,257	4,571	820
New Mexico	—	2	53,208	1,246	54,456	—	54,456	8,575	33
Texas	—	1,328	148,289	17,040	166,657	—	166,657	135,154	4,278
PAD District 4 Total	5,788	1,058	207,166	7,677	215,901	5	221,694	18,046	79
Colorado	864	—	29,734	677	30,412	—	31,275	95	49
Idaho	664	811	12,292	1,591	14,694	—	15,357	—	4
Montana	1,552	192	26,749	13	26,954	—	28,506	—	2
Utah	347	—	33,590	5,236	38,825	5	39,178	16,513	23
Wyoming	2,360	55	104,800	161	105,017	—	107,377	1,438	1
PAD District 5 Total	11,586	6,418	321,972	47,651	376,041	1,050	388,677	10,169	510
Alaska	6,351	5,341	11,526	23,824	40,690	5	47,047	—	1
Arizona	—	—	136,820	224	137,044	—	137,044	—	18
California	5,069	202	41,377	—	41,580	—	46,648	1,658	344
Hawaii	—	—	2,333	250	2,582	—	2,582	—	1
Nevada	1	—	97,118	33	97,150	929	98,080	—	4
Oregon	138	611	16,263	7,520	24,395	27	24,559	8,257	53
Washington	27	263	16,536	15,801	32,600	89	32,716	254	90

Dashed (—) = No data reported.

Notes: • See Technical Note 3 for further explanations. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2008 and "Petroleum Supply Annual," Volume 1, 2008, (DOE/EIA-0340(08)/1).

Table 22. Adjusted Sales for Farm Use: Distillate Fuel Oil and Kerosene; Sales for Electric Power and Oil Company Uses: Distillate Fuel Oil and Residual Fuel Oil, 2008
(Thousand Gallons)

Destination	Farm				Electric Power		Oil Company Use	
	Diesel	Other Distillate	Total Distillate	Kerosene	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	3,653,905	45,746	3,699,651	5,169	632,420	2,665,902	1,209,469	60,694
PAD District 1 Total	344,602	17,308	361,910	1,250	201,904	1,773,915	28,135	7,968
Subdistrict 1A Total	19,514	10,387	29,901	469	14,421	330,546	26	186
Connecticut	2,025	290	2,314	94	4,599	37,326	26	186
Maine	7,191	6,755	13,946	84	13	17,105	—	—
Massachusetts	1,198	179	1,377	17	6,236	246,519	—	—
New Hampshire	2,580	2,760	5,340	122	1,009	29,583	—	—
Rhode Island	93	—	93	—	2,177	13	—	—
Vermont	6,427	404	6,831	152	387	—	—	—
Subdistrict 1B Total	99,144	5,466	104,610	309	90,311	261,295	10,510	7,464
Delaware	4,644	1	4,645	5	2,414	—	3,169	—
District of Columbia	—	—	—	—	6,546	—	—	—
Maryland	16,429	69	16,498	54	16,630	18,911	126	702
New Jersey	2,329	134	2,463	2	10,000	31,289	392	1,491
New York	38,717	1,923	40,640	198	19,512	162,941	868	490
Pennsylvania	37,024	3,340	40,364	51	35,209	48,153	5,955	4,781
Subdistrict 1C Total	225,945	1,454	227,399	472	97,172	1,182,074	17,599	318
Florida	72,432	—	72,432	13	40,326	1,124,783	66	—
Georgia	66,182	679	66,861	3	16,110	—	214	—
North Carolina	35,794	462	36,256	134	9,601	—	61	—
South Carolina	17,095	—	17,095	108	9,899	—	329	116
Virginia	32,905	302	33,207	192	8,969	57,291	654	202
West Virginia	1,537	12	1,548	23	12,268	—	16,275	—
PAD District 2 Total	1,898,217	14,083	1,912,300	3,480	209,287	15,338	175,059	2,939
Illinois	207,637	207	207,844	134	23,886	—	62	—
Indiana	140,233	368	140,601	242	32,090	—	1,137	2,939
Iowa	190,747	2,213	192,960	106	8,715	—	—	—
Kansas	193,602	249	193,851	56	3,201	—	18,344	—
Kentucky	30,021	—	30,021	325	13,221	—	1,699	—
Michigan	56,069	130	56,198	58	32,314	7,025	18,448	—
Minnesota	130,191	846	131,037	166	8,328	6,484	784	—
Missouri	135,170	381	135,551	45	5,165	—	1	—
Nebraska	240,642	1,511	242,153	20	4,920	1,829	6	—
North Dakota	145,389	641	146,031	18	3,816	—	52,169	—
Ohio	141,954	2,296	144,249	2,047	40,656	—	5,726	—
Oklahoma	66,019	—	66,019	63	7,548	—	76,683	—
South Dakota	70,503	1,065	71,568	4	387	—	—	—
Tennessee	30,466	—	30,466	30	19,747	—	—	—
Wisconsin	119,576	4,176	123,751	166	5,293	—	—	—
PAD District 3 Total	823,063	5,730	828,793	50	40,458	147,273	767,775	18,410
Alabama	49,313	—	49,313	2	12,466	—	975	—
Arkansas	280,150	699	280,849	4	383	3,008	22,366	—
Louisiana	73,336	5,031	78,368	4	3,492	47,578	90,865	17,920
Mississippi	50,338	—	50,338	12	3,609	7,241	10,052	12
New Mexico	25,160	—	25,160	2	881	—	30,472	—
Texas	344,765	—	344,765	27	19,627	89,445	613,045	477
PAD District 4 Total	169,764	8,153	177,916	67	2,969	—	186,622	1,902
Colorado	34,284	80	34,364	23	1,185	—	80,547	—
Idaho	47,947	106	48,053	24	15	—	—	—
Montana	74,708	7,946	82,653	5	1,524	—	11,947	—
Utah	4,371	—	4,371	15	97	—	30,755	—
Wyoming	8,454	21	8,476	—	148	—	63,373	1,902
PAD District 5 Total	418,258	473	418,731	322	177,801	729,376	51,878	29,474
Alaska	62	27	89	—	49,824	—	39,281	14
Arizona	27,934	—	27,934	1	5,047	—	74	—
California	287,701	—	287,701	157	7,138	1,094	12,043	13,161
Hawaii	3,364	—	3,364	—	104,011	728,282	1	16,298
Nevada	2,588	15	2,604	—	1,244	—	260	—
Oregon	26,567	391	26,958	48	3,641	—	—	—
Washington	70,041	40	70,081	116	6,896	—	219	—

Dashed (—) = No data reported.

Notes: • See Technical Note 3 for further explanations. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2008 and "Petroleum Supply Annual," Volume 1, 2008, (DOE/EIA-0340(08)/1). • See Technical Note 3 for further explanation of Electric Power.

Table 23. Adjusted Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 2008
(Thousand Gallons)

Destination	Railroad Use	Vessel Bunkering		On-Highway Diesel	Total Transportation Use	
	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	3,069,997	1,339,546	5,315,722	38,006,669	42,416,211	5,315,722
PAD District 1 Total	478,046	320,432	1,949,419	10,782,225	11,580,702	1,949,419
Subdistrict 1A Total	38,812	58,946	13,665	1,080,387	1,178,145	13,665
Connecticut	3,185	3,086	—	292,777	299,048	—
Maine	1,673	4,361	2,194	180,338	186,372	2,194
Massachusetts	31,689	43,509	11,373	375,527	450,725	11,373
New Hampshire	125	2,369	—	97,866	100,360	—
Rhode Island	71	5,622	97	^E 73,488	79,181	97
Vermont	2,068	—	—	60,391	62,459	—
Subdistrict 1B Total	173,436	61,353	1,393,378	3,957,029	4,191,818	1,393,378
Delaware	1,105	401	45,865	59,587	61,094	45,865
District of Columbia	—	—	—	15,892	15,892	—
Maryland	2,830	8,999	21,968	529,023	540,852	21,968
New Jersey	14,866	21,116	805,700	902,201	938,183	805,700
New York	42,374	9,264	387,895	1,120,424	1,172,063	387,895
Pennsylvania	112,261	21,572	131,950	1,329,902	1,463,734	131,950
Subdistrict 1C Total	265,798	200,133	542,376	5,744,809	6,210,740	542,376
Florida	62,761	141,877	159,326	1,478,963	1,683,601	159,326
Georgia	67,979	10,421	265,934	1,325,065	1,403,465	265,934
North Carolina	28,121	7,202	27,379	968,814	1,004,137	27,379
South Carolina	14,443	15,416	53,412	667,949	697,808	53,412
Virginia	77,598	13,936	36,326	1,017,285	1,108,819	36,326
West Virginia	14,896	11,282	—	286,733	312,911	—
PAD District 2 Total	1,272,308	211,669	48,617	12,581,260	14,065,238	48,617
Illinois	59,125	69,632	1,270	1,436,180	1,564,937	1,270
Indiana	60,070	28,411	13,659	1,302,530	1,391,012	13,659
Iowa	28,426	285	—	643,923	672,633	—
Kansas	97,520	—	—	480,947	578,467	—
Kentucky	104,275	40,756	—	821,452	966,482	—
Michigan	12,676	8,010	7,904	838,960	859,646	7,904
Minnesota	90,225	22,522	23,877	1,120,424	1,233,171	23,877
Missouri	13,606	1,031	—	985,489	1,000,126	—
Nebraska	14,505	—	—	406,238	420,743	—
North Dakota	69,395	—	—	193,615	263,010	—
Ohio	153,700	21,035	—	1,494,837	1,669,572	—
Oklahoma	464,753	11	—	906,265	1,371,029	—
South Dakota	7,066	—	—	198,713	205,779	—
Tennessee	40,442	19,202	1,663	1,002,320	1,061,964	1,663
Wisconsin	56,524	775	243	749,367	806,666	243
PAD District 3 Total	766,792	497,953	1,554,272	7,339,373	8,604,118	1,554,272
Alabama	57,991	80,410	42,239	736,864	875,265	42,239
Arkansas	20,881	67,622	—	627,835	716,338	—
Louisiana	30,769	180,754	547,318	690,761	902,284	547,318
Mississippi	31,138	61,728	24,399	623,455	716,321	24,399
New Mexico	2,528	—	—	473,827	476,355	—
Texas	623,485	107,439	940,317	4,186,631	4,917,554	940,317
PAD District 4 Total	121,514	22	—	1,892,277	2,013,813	—
Colorado	3,947	1	—	566,484	570,432	—
Idaho	13,146	20	—	243,942	257,109	—
Montana	7,476	—	—	250,145	257,621	—
Utah	21,922	—	—	446,206	468,128	—
Wyoming	75,023	—	—	385,500	460,523	—
PAD District 5 Total	431,337	309,470	1,763,414	5,411,534	6,152,341	1,763,414
Alaska	5,791	91,945	7,238	171,682	269,418	7,238
Arizona	6,461	—	—	792,938	799,399	—
California	248,184	77,190	1,494,875	2,838,723	3,164,097	1,494,875
Hawaii	6	54,553	36,688	56,394	110,953	36,688
Nevada	6,315	21	—	329,292	335,627	—
Oregon	90,187	12,363	55,748	534,203	636,753	55,748
Washington	74,395	73,396	168,866	688,302	836,093	168,866

^E Estimated data. Since 2008 data were not available, estimate is based on 2007 data.

Dashed (-) = No data reported.

Notes: • See Technical Note 3 for further explanations. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2008 and "Petroleum Supply Annual," Volume 1, 2008, (DOE/EIA-0340(08)/1). • On-Highway Diesel data are Federal Highway Administration statistics of highway special fuels use.

Table 24. Adjusted Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2008
(Thousand Gallons)

Destination	Military				Off-Highway Distillate Fuel Oil			All Other	
	Diesel	Other Distillate	Total Distillate	Residual Fuel Oil	Construction	Other	Total	Residual Fuel Oil	Kerosene
U.S. Total	252,582	16,010	268,592	9,719	2,180,753	332,050	2,512,803	3,854	1,050
PAD District 1 Total	50,716	10,683	61,399	9,078	671,531	93,154	764,685	161	270
Subdistrict 1A Total	14,620	2,026	16,646	764	98,616	9,115	107,731	31	27
Connecticut	952	—	952	764	18,070	927	18,996	31	5
Maine	6,704	980	7,684	—	10,466	3,368	13,834	—	7
Massachusetts	3,072	—	3,072	—	50,835	2,361	53,196	—	—
New Hampshire	3,144	42	3,186	—	12,884	1,324	14,208	—	1
Rhode Island	394	994	1,388	—	1,873	132	2,005	—	—
Vermont	354	10	364	—	4,488	1,004	5,491	—	14
Subdistrict 1B Total	12,500	7,048	19,547	7,358	180,365	19,993	200,359	29	142
Delaware	86	40	126	—	2,791	—	2,791	—	—
District of Columbia	286	—	286	—	1,209	—	1,209	—	—
Maryland	4,702	1,658	6,360	6,601	32,705	840	33,545	—	4
New Jersey	1,955	90	2,046	—	46,003	14,286	60,288	—	—
New York	3,574	313	3,888	—	43,944	1,256	45,199	29	98
Pennsylvania	1,896	4,946	6,843	757	53,714	3,612	57,325	—	40
Subdistrict 1C Total	23,596	1,610	25,205	956	392,550	64,046	456,596	101	101
Florida	4,745	—	4,745	26	106,386	6,441	112,827	—	1
Georgia	2,900	—	2,900	—	80,152	24,308	104,459	—	2
North Carolina	4,286	129	4,415	—	32,467	8,058	40,525	—	5
South Carolina	8,216	—	8,216	47	39,851	11,626	51,477	—	1
Virginia	3,417	1,358	4,775	883	116,537	11,273	127,809	101	89
West Virginia	31	123	154	—	17,158	2,340	19,498	—	3
PAD District 2 Total	9,995	658	10,653	—	680,170	83,648	763,819	3,693	655
Illinois	362	—	362	—	95,327	20,505	115,832	—	—
Indiana	261	—	261	—	49,348	5,501	54,849	—	27
Iowa	43	—	43	—	17,940	9,466	27,406	—	39
Kansas	715	4	719	—	17,756	820	18,575	—	33
Kentucky	919	—	919	—	34,846	1,817	36,663	—	48
Michigan	2,441	—	2,441	—	48,770	6,757	55,527	1,832	6
Minnesota	445	11	456	—	82,832	8,029	90,861	—	4
Missouri	2,268	636	2,905	—	68,588	3,794	72,383	—	1
Nebraska	139	—	139	—	11,573	1,400	12,973	—	20
North Dakota	495	—	495	—	11,863	447	12,311	1,861	—
Ohio	775	—	775	—	74,229	6,589	80,818	—	204
Oklahoma	359	—	359	—	46,865	1,558	48,423	—	189
South Dakota	155	7	162	—	9,740	837	10,577	—	1
Tennessee	111	—	111	—	58,606	10,248	68,855	—	11
Wisconsin	506	—	506	—	51,888	5,878	57,766	—	72
PAD District 3 Total	53,081	563	53,644	—	469,573	91,669	561,242	—	22
Alabama	1,097	563	1,659	—	54,246	35,804	90,050	—	2
Arkansas	378	—	378	—	16,320	14,127	30,447	—	1
Louisiana	1,262	—	1,262	—	92,600	9,858	102,458	—	—
Mississippi	141	—	141	—	43,323	20,763	64,086	—	—
New Mexico	747	—	747	—	18,570	1,671	20,241	—	4
Texas	49,457	—	49,457	—	244,514	9,446	253,960	—	14
PAD District 4 Total	1,004	379	1,384	—	93,950	15,348	109,298	—	21
Colorado	636	74	710	—	36,667	546	37,213	—	8
Idaho	19	—	19	—	9,320	6,529	15,848	—	—
Montana	330	305	635	—	13,905	5,204	19,109	—	12
Utah	19	—	19	—	24,072	2,290	26,362	—	—
Wyoming	—	—	—	—	9,986	779	10,765	—	—
PAD District 5 Total	137,786	3,727	141,513	641	265,530	48,231	313,760	—	83
Alaska	6,920	3,726	10,646	—	18,065	2,053	20,118	—	74
Arizona	1,179	—	1,179	—	59,388	1,221	60,609	—	2
California	8,428	—	8,428	641	101,688	3,004	104,692	—	3
Hawaii	1,819	—	1,819	—	7,946	—	7,946	—	—
Nevada	1,343	—	1,343	—	21,966	533	22,500	—	—
Oregon	366	—	366	—	13,978	15,947	29,925	—	1
Washington	117,732	—	117,732	—	42,498	25,472	67,970	—	2

Dashed (-) = No data reported.

Notes: • See Technical Note 3 for further explanations. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2008 and "Petroleum Supply Annual," Volume 1, 2008, (DOE/EIA-0340(08)/1).

Appendix A

Technical Notes

Technical Note 1: EIA-821: Annual Fuel Oil and Kerosene Sales Report, 2007

Background

The EIA-821, “Annual Fuel Oil and Kerosene Sales Report” survey was implemented to meet Energy Information Administration (EIA) legislative mandates and data user needs. Form EIA-821 is used to gather data on the sales to energy users of distillate fuel oil, residual fuel oil, and kerosene. The data are used to determine the level of demand by energy use category and product at the State, regional, and national levels. This mandatory report is authorized by the Federal Energy Administration Act of 1974 (P. L. 93-275).

The predecessor survey to the EIA-821 was the EIA-172, “Sales Report of Fuel Oil and Kerosene” survey. The EIA-172 was conducted for reference years 1979 through 1982. Due to a serious deterioration in the sample of respondents during the 4-year period, the Form EIA-172 data were not collected for 1983. Instead, estimates for 1983 were published and a new sample of respondents was designed and selected from an improved sampling frame. The EIA-821 survey commenced with reference year 1984.

Discussion of Sampling Frame

The target population for the fuel oil and kerosene sales survey is the universe of companies that sell fuel oil and kerosene to energy users.

The EIA-863 database provided the sampling frame for the EIA-821 survey. The EIA-863, “Petroleum Product Sales Identification Survey,” was mailed to approximately 25,000 companies in January 2003 to collect 2002 State-level sales volume data for No. 2 distillate, residual fuel, motor gasoline, and propane. Companies also indicated if they sold kerosene. The No. 2 distillate data were further identified by residential and nonresidential energy use, and non-energy use sales; the residual data were identified by energy use and non-energy use; motor gasoline was identified by energy use and non-energy use and by conventional and oxygenated and/or reformulated; and propane was identified by residential, nonresidential, and non-energy use sales. The mailing list for the EIA-863 survey was constructed by merging and unduplicating the 1998 frame file and more than 50 State and commercial lists. In addition, company/State-level volumes for distillate fuel,

residual fuel, motor gasoline, and propane from the 2002 EIA-821 survey were merged with the EIA-863 to yield a combined data file. The transformed and edited version of the frame was then used to design and select the 2008 EIA-821 sample.

It should be noted that truck stops selling No. 2 diesel fuel were not specifically included in the EIA-863 survey. Therefore, the EIA-821 survey does not include all sales of No. 2 distillate through retail truck stops. However, to compensate for this shortage in coverage, data from the Federal Highway Administration are presented in the tables for on-highway diesel sales.

The sampling frame also lacked full coverage of kerosene retailers, many of whom are hardware stores and service stations. To account for all kerosene volumes supplied to the marketplace, aggregate reported kerosene volumes are set equal to the products supplied volumes published in the *Petroleum Supply Annual*.

Discussion of the Sample Design

The purpose of the EIA-821 sample design was to produce State-level estimates of total sales for the following five target variables: (1) residential No. 2 distillate, (2) other retail No. 2 distillate, (3) wholesale No. 2 distillate, (4) retail residual, and (5) wholesale residual. A separate sample was initially designed for each target variable.

Companies were divided into two basic types of strata: certainty and noncertainty. Companies selected with certainty were:

- All refiners and gas plant operators.
- Companies doing business in four or more States.
- Companies accounting for 5 percent or more of the distillate or residual fuel oil volume for any target variable or particular energy use category sold in a State.
- Companies accounting for 5 percent or more of the kerosene volume sold in a State in an earlier EIA-821 survey.
- Augmented frame units, e.g., vessel bunkering, for which no attribute data were available.

Firms determined not to be selling distillate or residual fuel oil or kerosene were removed from the frame file. Volumes for nonrespondents to the EIA-863 who had reported in the previous frame survey or in a sample survey were imputed. The imputed

nonrespondents and the noncertainty companies were stratified by sales volume for each target variable. Strata boundaries were determined using the Dalenius-Hodges procedures, allowing the number of strata and the strata boundaries to vary by State. Nonrespondents for whom no previous information was available were classified in a separate stratum and sampled with reduced probabilities of selection.

Neyman allocation was used to allocate the number of companies required for each strata to obtain the required levels of accuracy: a 2.5 percent coefficient of variation for residual fuel oil and a 5 percent coefficient of variation for distillate fuel oil. Sample selections were then performed simultaneously from the same random list for the five samples to produce a final linked sample of approximately 4,000 companies. This method reduced the total survey sample size while improving volume estimates. Selected companies were asked to report sales by end-use categories for distillate and residual fuel oil and kerosene.

Imputation and Estimation

Survey data gathered from the respondents may contain incomplete reporting, total nonresponse, or values that fail editing. Missing data are estimated, or implicitly imputed for, using the strata means and treated the same as reported data. The weighted estimate is defined as follows:

$$\hat{V} = \sum_h N_h \left(\sum_i W_{hi} V_{hi} / \sum_i W_{hi} \right)$$

where:

\hat{V} = total estimated volume

\sum_h = denotes summation over strata

N_h = stratum population for stratum h

\sum_i = denotes summation over units within stratum h

V_{hi} = volume reported for unit i in stratum h

W_{hi} = weight attached to unit i in stratum h

where: W_{hi} is inversely proportional to the probability of inclusion in the linked sample.

The degree of imputation by product and energy use at the U.S. total level ranged as follows for the 2008 EIA-821 data: distillate, 0.76 percent for oil company use to 32.90 percent for vessel bunkering use; residual fuel oil, 0.93 percent for oil company use to

8.57 percent for vessel bunkering use; and kerosene, 3.42 percent for all other uses to 7.05 percent for residential use.

Collection Methods

The EIA-821 form was mailed in January 2009 to all companies selected for participation in the 2008 reference year survey. The completed form was due to EIA on March 6, 2009. A second request was mailed to nonrespondents approximately 1 month after the filing deadline. Follow-up telephone calls were made to collect outstanding data and to verify reported data. Late submissions and resubmissions were processed when received.

Data Processing

As EIA-821 forms were received, they were logged into an automated Survey Control File that maintains company identification and survey form status information for each company selected to participate in the survey. The data were reviewed manually, entered onto the computer files, and then processed through an automated edit program, which detected missing data and outlying values. Data that failed the edits were resolved through telephone calls to the data reporters and corrections were entered onto the computer files. Preliminary estimates were generated and processed through a series of validation procedures to flag and rectify potential misreporting of data. Statistical reports, including publication tables, were produced using only acceptable and verified data.

Technical Note 2: Reliability of the Data

Two types of errors are associated with data produced from a sample survey; sampling errors and nonsampling errors. Sampling errors occur because the estimates are based on a sample rather than on a census. The particular sample used for the EIA-821 survey is one of a large number of samples of equal size which could have been selected from the sampling frame using the same sample design. Each of these samples would produce a different estimate. If the estimates were averaged over all possible samples, the result would be the same as the estimate derived from a census of the sampling frame. The sampling error is a measure of variability among the estimates from all possible samples and, thus, is a measure of the precision with which an estimate from a particular sample approximates the results of a census.

Nonsampling errors and biases can arise from a number of sources: (1) inability to obtain information about all cases in the sample, (2) response errors, (3) differences in the interpretation of questions or definitions, (4) mistakes in recording or coding of the data obtained, and (5) other errors of collection, response, coverage, and estimation for missing data. Bias is the difference between the average of the estimates over all possible samples of the same size and design, and the true value being estimated. It is not possible to estimate bias using the results of one sample.

Data obtained from alternate sources are not subject to sampling errors, but may be subject to nonsampling errors, the magnitudes of which are unknown. Nonsampling errors for survey estimates and estimates adjusted to alternate sources cannot be determined, but attempts are made throughout survey processing to minimize this type of error.

Data in Tables 1 through 12 are based on survey data that are subject to sampling errors. Coefficients of variation, which are estimates of sampling errors, are presented for the retail target variables in the following table for the 2008 survey. The coefficients of variation (CV) were estimated by:

$$CV(\hat{V}) = \frac{\sqrt{VAR(\hat{V})}}{\hat{V}}$$

where:

$$VAR(\hat{V}) = \sum_h n_h \left(1 - \frac{n_h}{N_h} \right) S_h^2$$

$$S_h^2 = \frac{\sum_{i=1}^{n_h} W_i^2 V_i^2 + \bar{V}_h^2 \sum_{i=1}^{n_h} W_i^2 - 2\bar{V}_h \sum_{i=1}^{n_h} W_i^2 V_i}{n_h - 1}$$

$$\bar{V}_h = \frac{\sum_{i=1}^{n_h} W_i V_i}{\sum_{i=1}^{n_h} W_i}$$

\hat{V} = total estimated volume

N_h = stratum population for stratum h

n_h = number of sample units in stratum h

V_i = volume for unit i

W_i = weight for unit i

Response rates also offer some indication of the reliability and comprehensiveness of survey results. For the 2008 EIA-821 survey, the overall response rate (the number of submissions received, divided by the number of submissions solicited and expected, times 100) was 90.0 percent.

Technical Note 3: Data Adjustments

Alternate Source Data

After all preliminary tabulations were verified, comparisons were made between the survey results and available alternate source data. The following energy use categories were replaced by alternate source data at the U.S., Petroleum Administration for Defense (PAD) district, or State level:

Tables 1 through 12:

On-Highway Diesel. Distillate fuel oil by State was calculated from the Federal Highway Administration data on highway use of special fuels. Of the 2004 through 2008 special fuels, more than 99 percent is diesel.

Tables 13 through 24:

The 2007 adjusted numbers have been revised since they were first published in the Fuel Oil and Kerosene Sales 2007. The revisions to the data were made to include new distillate and residual volumes for "Electric Power". When we originally published the Fuel Oil and Kerosene Sales 2007, the "Electric Power" information was still being collected and verified. See Electric Power below for further explanation on how the data are calculated.

Electric Power. National-level distillate and residual fuel oil sales for electric power use were calculated from annual aggregations of data collected on the EIA-906, "Power Plant Report." Form EIA-906 utility and non-utility, NAICS 22 companies, consumption data was added to the stock change of distillate and residual, respectively. Allocations at the State level were based on the EIA-821 survey.

Coefficients of Variation for Sales of Fuel Oil, 2008

Geographic Area	Residential Distillate Fuel Oil	Non-Residential Retail Distillate Fuel Oil	Retail Residual Fuel Oil
U.S. Average	2.0	1.0	0.1
PAD District 1 Average	2.2	1.1	0.1
Subdistrict 1A Average	2.6	2.2	0.0
Connecticut	6.1	3.9	0.0
Maine	3.5	5.7	0.0
Massachusetts	5.0	4.7	0.0
New Hampshire	3.7	4.3	0.0
Rhode Island	5.9	2.7	0.0
Vermont	2.6	4.2	0.0
Subdistrict 1B Average	3.5	1.8	0.1
Delaware	6.0	3.4	0.0
District of Columbia	0.0	0.0	0.0
Maryland	6.1	1.7	0.0
New Jersey	7.3	3.2	0.0
New York	5.3	3.7	0.1
Pennsylvania	7.0	3.5	0.0
Subdistrict 1C Average	4.9	1.7	0.3
Florida	11.4	4.5	0.0
Georgia	12.0	2.8	2.9
North Carolina	7.9	3.5	0.0
South Carolina	12.5	3.5	0.0
Virginia	6.9	4.2	0.0
West Virginia	7.2	5.7	0.0
PAD District 2 Average	3.0	1.3	0.3
Illinois	10.7	5.5	5.4
Indiana	14.2	4.0	2.8
Iowa	12.0	5.0	0.1
Kansas	20.8	5.8	0.0
Kentucky	4.7	4.7	0.0
Michigan	6.3	5.8	0.4
Minnesota	7.9	5.6	0.0
Missouri	4.0	3.4	0.0
Nebraska	17.7	5.4	0.0
North Dakota	11.0	5.4	0.0
Ohio	8.1	4.6	0.0
Oklahoma	0.0	4.8	0.0
South Dakota	11.7	2.6	0.0
Tennessee	12.4	3.3	3.7
Wisconsin	5.2	3.3	0.0
PAD District 3 Average	3.8	3.4	0.0
Alabama	1.4	4.5	0.0
Arkansas	3.4	10.5	0.0
Louisiana	2.8	4.0	0.0
Mississippi	0.0	2.3	0.0
New Mexico	21.3	2.7	0.0
Texas	24.3	5.8	0.0
PAD District 4 Average	18.0	2.4	0.0
Colorado	23.3	4.8	0.0
Idaho	5.6	3.9	0.0
Montana	46.1	6.3	0.0
Utah	0.1	5.9	0.0
Wyoming	4.6	5.0	0.0
PAD District 5 Average	2.1	2.9	0.0
Alaska	1.9	0.2	0.0
Arizona	0.0	2.9	0.0
California	9.4	4.1	0.0
Hawaii	120.2	0.0	0.0
Nevada	0.0	4.8	0.0
Oregon	8.8	5.1	0.0
Washington	3.9	13.1	0.0

Note: Coefficients of variation that are less than 0.1 and greater than zero are displayed as 0.1.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2008.

On-Highway Diesel. Distillate fuel oil by State was calculated from the Federal Highway Administration data on highway use of special fuels. Of the 2003 through 2008 special fuels, more than 99 percent is diesel.

2004 through 2008 Adjustments

Kerosene volumes in Tables 1 through 24 are adjusted at the national level to equal products supplied volumes as published in the “Detailed Statistics” section of the Petroleum Supply Annual (PSA). The 2008 survey resulted in 270,778 thousand gallons of kerosene at the national level. The products supplied volume at the national level for kerosene was 218,736 thousand gallons. Hence, the adjustment factor at the national level for 2008 was 0.81.

Volumes of distillate fuel oil in Tables 13 through 24 were adjusted at the PAD district level to equal products supplied volumes. The adjustment factors at the PAD district level for 2008 are as follows:

Distillate Fuel Oil

PAD District 1:	.99
PAD District 2:	1.19
PAD District 3:	1.38
PAD District 4:	.91
PAD District 5:	.95

For Tables 13 through 24, total sales at the PAD district level equal the products supplied volumes as reported in the PSA, 2004 through 2008. For example, the 2008 survey yielded a volume for distillate residential use in PAD District 2 of 362,627 thousand gallons. The total distillate volume for PAD District 2 was 5,050,645 from the survey, after subtracting the volume coming from alternate sources. The product supplied total distillate volume for PAD District 2 was 5,991,391 after removing alternate source volume. Hence, the adjusted 2008 estimate of distillate for residential use in PAD District 2 was $(5,991,391/5,050,645) \times 362,627 = 430,171$. For distillate fuel oil in Tables 13 through 24, the PAD district adjustments were made to each State and product-use category except on-highway diesel and electric power uses.

Volumes of residual fuel oil in Tables 13 through 24 were adjusted at the national level to equal the products supplied estimate. The 2008 survey yielded 8,272,952 gallons of residual fuel oil, while the products supplied volume at the national level was

9,564,450 thousand gallons. Thus, the adjustment factor at the national level for 2008 was 1.05, after subtracting the volumes coming from alternate sources. For residual fuel oil, the adjustments were made to each State and energy use category except electric power.

Technical Note 4: Energy Use Descriptions and Petroleum Product Definitions

Energy Use Descriptions

Residential. An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. Sales to farmhouses are reported under “Farm” and sales to apartment buildings are reported under “Commercial.”

Commercial. An energy-consuming sector that consists of service-providing facilities and equipment of nonmanufacturing businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking and running a wide variety of other equipment.

Industrial. An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing and mining. Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products.

Oil Company. An energy-consuming sector that consists of drilling companies, pipelines or other related oil companies not engaged in the selling of petroleum products. Includes fuel oil that was purchased or produced and used by company facilities for operation of drilling equipment, other field or refinery operations, and space heating at petroleum refineries, pipeline companies, and oil-drilling companies. Sales to other oil companies for

field use are included, but sales for use as refinery charging stocks are excluded.

Farm. An energy-consuming sector that consists of establishments where the primary activity is growing crops and/or raising animals. Energy use by all facilities and equipment at these establishments is included, whether or not it is directly associated with growing crops and/or raising animals. Common types of energy-using equipment include tractors, irrigation pumps, crop dryers, smudge pots, and milking machines. Facility energy use encompasses all structures at the establishment, including the farm house.

Electric Power. An energy-consuming sector that consists of electricity only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public--i.e., NAICS 22 plants. Volumes directly imported and used by the electric power companies are included.

Railroad. An energy-consuming sector that consists of all railroads for any use, including that used for heating buildings operated by railroads.

Vessel Bunkering. An energy-consuming sector that consists of commercial or private boats such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies. Excluded are volumes sold to the U. S. Armed Forces.

On-Highway Diesel. An energy-consuming sector that consists of motor vehicles: automobiles, trucks, and buses. Vehicles used in the marketing and distribution of petroleum products are also included.

Military. An energy-consuming sector that consists of the U.S. Armed Forces, Defense Energy Support Center (DESC), and all branches of the Department of Defense (DOD).

Off-Highway. An energy-consuming sector that consist of:

1. **Construction.** An energy-consuming sub sector that consist of all facilities and equipment including earthmoving equipment, cranes, generators, air compressors, etc.
2. **Other.** An energy-consuming sub sector that consists of all off-highway uses other than construction. Includes logging, scrape and junk yards, and refrigeration units on trucks.

All Other Uses. Sales for all other energy-consuming sectors not included elsewhere.

Definitions of Petroleum Products and Other Related Terms

ASTM. The acronym for the American Society for Testing and Materials.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

1. **No. 1 Distillate.** A light petroleum distillate that can be used as either a diesel fuel or a fuel oil.
 - a. **No. 1 Diesel Fuel.** A light distillate fuel oil that has distillation temperatures of 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM specification D 975. It is used in high-speed diesel engines generally operated under frequent speed and load changes, such as those in city buses and similar vehicles.
 - b. **No. 1 Fuel Oil.** A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters.
2. **No. 2 Distillate.** A petroleum distillate that can be used as either a diesel fuel or a fuel oil.
 - a. **No. 2 Diesel Fuel.** A fuel that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high speed diesel engines that are generally operated under uniform speed and load conditions such as those in railroads locomotives, trucks, and automobiles.

- (1) **Ultra Low Sulfur No. 2 Diesel Fuel.** No. 2 diesel fuel that has a sulfur level no higher than 15 ppm by weight. It is used primarily in motor vehicle diesel engines for on-highway use.
- (2) **Low Sulfur No. 2 Diesel Fuel.** No. 2 diesel fuel that has a sulfur level no higher than 500 ppm by weight. It is used primarily in motor vehicle diesel engines for on-highway use.
- (3) **High Sulfur No. 2 Diesel Fuel.** No. 2 diesel fuel that has a sulfur level above 500 ppm by weight.
- b. **No. 2 Fuel Oil (Heating Oil).** A distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 640 degrees Fahrenheit at the 90-percent recovery point and meets the specification defined in ASTM specification D 396. It is used in atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units.
3. **No. 4 Fuel.** A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms with ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low-and medium-speed diesel engines and conforms to ASTM Specification D 975.

NOTE: Respondents to the EIA-821 survey were instructed to report all volumes in accordance with what the product was sold as, regardless of the actual specifications of that product. For example, if a No. 2 distillate was sold as a heating oil or fuel oil, the volume would be reported in the category "No. 2 Fuel Oil" even if the product conformed to the higher specifications of a diesel fuel.

Kerosene. A light petroleum distillate that is used in space heater, cook stoves, an water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-k and No. 2-k, the two grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil.

PAD District. Petroleum Administration for Defense Districts.

PAD District 1 (East Coast):

Subdistrict 1A (New England):

Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Subdistrict 1B (Central Atlantic):

Delaware, District of Columbia, Maryland, New Jersey, New York, and Pennsylvania

Subdistrict 1C (Lower Atlantic):

Florida, Georgia, North Carolina, South Carolina, Virginia, and West Virginia

PAD District 2 (Midwest):

Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, Ohio, Oklahoma, Tennessee, and Wisconsin

PAD District 3 (Gulf Coast):

Alabama, Arkansas, Louisiana, Mississippi, New Mexico, and Texas

PAD District 4 (Rocky Mountains):

Colorado, Idaho, Montana, Utah, and Wyoming

PAD District 5 (West Coast):

Alaska, Arizona, California, Hawaii, Nevada, Oregon, and Washington

Residual Fuel Oils. A general classification for the heavier oils, know as No. 5 and No. 6 fuel oils that remain after the distillate fuel oils an lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specification D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also know as Navy Special and is defined in Military Specification MIL-F859E, including Amendment 2 (NATO Symbol F-77). It is used in steam-powered vessels in government service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

United States. The United States includes the 50 states and the District of Columbia.

**Form EIA – 821:
Annual Fuel Oil
and Kerosene
Sales Report**

FORM EIA-821
ANNUAL FUEL OIL AND KEROSENE SALES REPORT
REFERENCE YEAR 2008

This report is mandatory under the Federal Energy Administration Act of 1974 (Public Law 93-275). Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction. See instructions for further details on the sanctions and the provisions concerning the confidentiality of information submitted on this form.

PART 1. RESPONDENT IDENTIFICATION

For assistance in completing this form call 800-592-2299

Provide corrections to Company Name, Address, and Contact information in Items 1-8					
1. Company Name		8. Contact Information: a. Name _____ b. Telephone Number () _____ - _____ c. Fax Number () _____ - _____ d. Email Address _____			
2. Doing Business As (DBA)					
3. Physical Address (eg. Street Address, Building, Floor, Suite)					
4. Mailing Address (eg. PO Box, RR)					
5. City	6. State	7. Zip Code			
9. Reference Year 2008		10. Type of Report (Check One) a. <input type="checkbox"/> Original b. <input type="checkbox"/> Resubmission		11. The number of States in which your firm sells Fuel Oil and/or Kerosene to Energy Users.	
12. Which of the following best describes this firm at the end of 2008?					
a. <input type="checkbox"/> In operation – Sales include petroleum products		Skip to and complete items 22-25 and Part 2			
b. 1. <input type="checkbox"/> Sold 2. <input type="checkbox"/> Merged 3. <input type="checkbox"/> Leased		Complete items 13 to 25, and Part 2 for that portion of 2008 in which the firm was active under your ownership and control			
c. <input type="checkbox"/> Subsidiary of another					
d. <input type="checkbox"/> Commissioned Agent					
e. <input type="checkbox"/> Permanently ceased operation		Complete item 13, then skip to and complete items 22-25 and Part 2 for that portion of 2008 in which the firm was active under your ownership and control			
f. <input type="checkbox"/> Not in the petroleum business		Skip to and complete items 22-25			
13. Effective Date of Status Change		Month	Day	Year	
14. Company Name					
15. Doing Business As (DBA)					
16. Physical Address (eg. Street Address, Building, Floor, Suite)					
17. Mailing Address (eg. PO Box, RR)					
18. City		19. State		20. Zip Code	
21. Contact Information:					
a. Name _____					
b. Telephone Number () _____ - _____					
c. Fax Number () _____ - _____					
d. Email Address _____					
PREPARED BY: Check appropriate box. If preparer is different from contact person, complete lines 24 and 25.					
22. <input type="checkbox"/> Preparer same as contact person shown on label		23. Date			
<input type="checkbox"/> Preparer is not the same as contact person shown on label					
24. Preparer's Name		25. Preparer's Telephone Number			

Name of Firm Reporting		DOE ID Number	Reference Year 2008	Page _____ of _____
PART II. TOTAL SALES DURING THE REFERENCE YEAR. (Read pages 2-4 of the instructions)				
Line No.	Type of Fuel and Use	States of Destination (Enter Standard Abbreviations, see page 6 of the instructions)		
Kerosene (Report in Actual Gallons)				
	Sold directly to consumers for:			
1	Residential Use (Non-Farm):			
2	Commercial Use:			
3	Industrial Use:			
4	Farm Use:			
5	All Other Uses (including own company, please specify):			
6	Sold to Dealers, Resellers, and Refiners:			
7	Total Kerosene (Add Lines 1 thru 6)			
Distillate Fuel Oil (Report in Actual Gallons)				
	Sold directly to consumers for:			
	Residential Use (Non-Farm):			
8	No. 1			
9	No. 2			
	Commercial Use (See Reference Guide):	<i>Report sales of Ultra Low or Low Sulfur Diesel to automobiles, trucks, buses, and school buses on lines 39 or 40, under On-highway Diesel Use, with the exception of government vehicles which should be reported on lines 12 or 13.</i>		
10	No. 1			
11	No. 2 Fuel Oil			
12	No. 2 Diesel ≤ 15 ppm Sulfur, Ultra Low			
13	No. 2 Diesel > 15 and ≤ 500 ppm Sulfur, Low			
14	No. 2 Diesel > 500 ppm Sulfur, High			
15	No. 4			
	Industrial Use (Manufacturing and Mining):			
16	No. 1			
17	No. 2 Fuel Oil			
18	No. 2 Diesel ≤ 500 ppm Sulfur, Low (Include Ultra Low Sulfur)			
19	No. 2 Diesel > 500 ppm Sulfur, High			
20	No. 4			
	Oil Company Use (Drilling and Own Company Refining):			
21	No. 2 Diesel ≤ 500 ppm Sulfur, Low (Include Ultra Low Sulfur)			
22	No. 2 Diesel > 500 ppm Sulfur, High			
23	Other Distillate			
	Railroad Use:			
24	No. 2 Diesel ≤ 500 ppm Sulfur, Low (Include Ultra Low Sulfur)			
25	No. 2 Diesel > 500 ppm Sulfur, High			
26	Other Distillate			

Name of Firm Reporting		DOE ID Number	Reference Year 2008	Page _____ of _____
PART II. TOTAL SALES DURING THE REFERENCE YEAR. (Read pages 2-4 of the instructions)				
Line No.	Type of Fuel and Use	States of Destination (Enter Standard Abbreviations, see page 6 of the instructions)		
Distillate Fuel Oil – continued (Report in Actual Gallons)				
Vessel Bunkering (Shipping and Boating):				
27	No. 2 Diesel ≤ 500 ppm Sulfur, Low (Include Ultra Low Sulfur)			
28	No. 2 Diesel > 500 ppm Sulfur, High			
29	Other Distillate			
Military Use:				
30	No. 2 Diesel ≤ 500 ppm Sulfur, Low (Include Ultra Low Sulfur)			
31	No. 2 Diesel > 500 ppm Sulfur, High			
32	Other Distillate			
Electric Power (Electric utility and Nonutility):				
33	No. 2 Diesel ≤ 500 ppm Sulfur, Low (Include Ultra Low Sulfur)			
34	No. 2 Diesel > 500 ppm Sulfur, High			
35	Other Distillate			
Farm Use:				
36	No. 2 Diesel ≤ 500 ppm Sulfur, Low (Include Ultra Low Sulfur)			
37	No. 2 Diesel > 500 ppm Sulfur, High			
38	Other Distillate			
On-highway Diesel Use:				
39	Diesel ≤ 15 ppm Sulfur, Ultra Low			
40	Diesel > 15 and ≤ 500 ppm Sulfur, Low			
Off-highway Use: Construction:				
41	No. 2 Diesel ≤ 500 ppm Sulfur, Low (Include Ultra Low Sulfur)			
42	No. 2 Diesel > 500 ppm Sulfur, High			
43	Other Distillate			
Off-highway Use: Other (Specify e.g., Logging):				
44	No. 2 Diesel ≤ 500 ppm Sulfur, Low (Include Ultra Low Sulfur)			
45	No. 2 Diesel > 500 ppm Sulfur, High			
46	Other Distillate			
47	All Other Uses (Specify): _____			
48	Sold to Dealers, Resellers, and Refiners:			
49	Total Distillate (Add Lines 8 thru 48)			

Name of Firm Reporting		DOE ID Number	Reference Year 2008	Page _____ of _____
PART II. TOTAL SALES DURING THE REFERENCE YEAR. (Read pages 2-4 of the instructions)				
Line No.	Type of Fuel and Use	States of Destination (Enter Standard Abbreviations, see page 6 of the instructions)		
Residual Fuel Oil – Include No. 5 and No. 6 (Report in Actual Gallons)				
Sold directly to consumers for:				
50	Commercial Use (Nonmanufacturing):			
51	Industrial Use (Manufacturing and Mining):			
52	Oil Company Use (Drilling and Own Company Refining):			
53	Vessel Bunkering (Shipping and Boating):			
54	Military Use:			
55	Electric Power (Electric utility and Nonutility):			
56	All Other Uses (Specify): _____			
57	Sold to Dealers, Resellers, and Refiners:			
58	Total Residual (Add Lines 50 thru 57)			

Send the completed form to: **U.S. Department of Energy**
Energy Information Administration (EIA-821)
P.O. Box 833
Merrifield, VA. 22116-0833

or fax completed form by calling: **1 (703) 676-7514, Attn: EIA-821**